



# NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

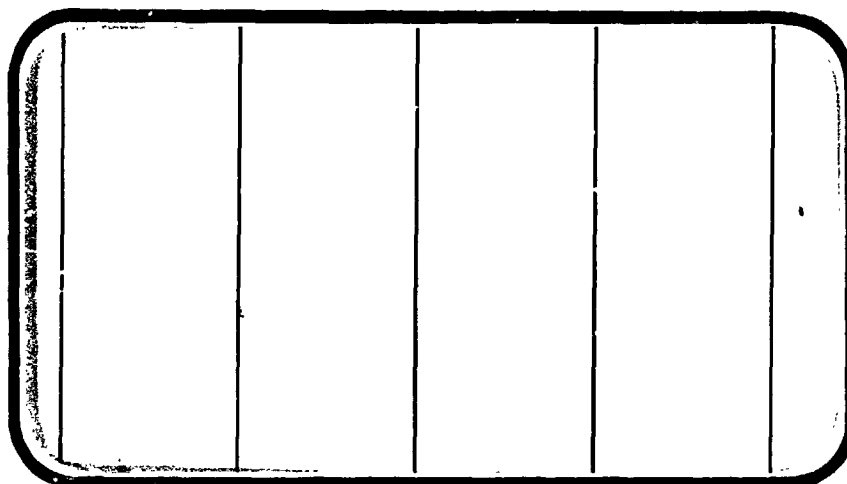
(NASA-CR-147626) RESULTS FROM A CONVECTIVE  
HEAT TRANSFER RATE DISTRIBUTION TEST ON A  
0.0175 SCALE MODEL (22-0) OF THE ROCKWELL  
INTERNATIONAL VEHICLE 4 SPACE SHUTTLE  
CONFIGURATION IN THE AEDC-VKF (Chrysler

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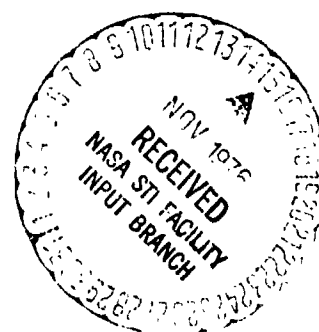


SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS



DATA Management services

SPACE DIVISION



CHRYSLER  
CORPORATION

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RESULTS FROM A CONVECTIVE HEAT TRANSFER RATE  
DISTRIBUTION TEST ON A 0.0175 SCALE MODEL (22-0)  
OF THE ROCKWELL INTERNATIONAL VEHICLE 4 SPACE  
SHUTTLE CONFIGURATION IN THE AEDC-VKF TUNNEL B  
(OH49B)

by

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Rockwell International-Space Division

Prepared under NASA Contract Number NAS9-13247

by

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for

Engineering Analysis Division  
Johnson Space Center  
National Aeronautics and Space Administration  
Houston, Texas



**WIND TUNNEL TEST SPECIFICS:**

Test Number: AEDC V41B-57A  
NASA Series Number: OH49B  
Model Number: 22-OT  
Test Dates: July 2, 1974 through July 11, 1974  
Occupancy Hours: 60

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ABSTRACT

The tests were conducted in Hypersonic Wind Tunnel (B) at Mach number 8 during the period from July 2-11, 1974. The objective of the tests was the investigation of reentry mode convective heat-transfer rates to the Vehicle 4 shuttle orbiter. The thin-skin thermocouple technique was used to obtain the heat transfer rate measurements. A complete set of tabulated data is presented in this report.

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# NOMENCLATURE

<u>Symbol</u>	<u>Definition</u>
ALPHA, $\alpha$	Model angle of attack, deg
ALPHA-PREBEND	Sting prebend angle, deg
ALPHA-SECTOR	Tunnel sector angle, deg
b	Model wall thickness, in. or ft.
B	Total model wing span, in. (see Fig. 1)
BV	Vertical tail span with origin at Z = 500, in. (see Fig. 1)
$c_p$	Model wall specific heat, Btu/lbm-°R
C	Local wing or tail chord, in. (see Fig. 1)
$\Delta$	Local body deflection angle referenced to free-stream velocity ( $\epsilon$ + ALPHA-MODEL), deg
DELTAEF, $\delta_{BF}$	Body flap deflection angle, deg
DELTAE, $\delta_e$	Elevon deflection angle, deg
DELTASB, $\delta_{SB}$	Speed brake deflection angle, deg
DTWDT, $dtW/dt$	Derivative of the model wall temperature with respect to time, °R/sec
$\epsilon$	Local body deflection angle with respect to the X-Y plane, deg
H(TAW)	Heat-transfer coefficient, $\frac{Q-DOT}{TAW - TW}$ , $\frac{Btu}{ft^2-sec-°R}$
H(TO)	Heat-transfer coefficient, $\frac{Q-DOT}{TO - TW}$ , $\frac{Btu}{ft^2-sec-°R}$
H(9TO)	Heat-transfer coefficient, $\frac{Q-DOT}{(0.9TO) - TW}$ , $\frac{Btu}{ft^2-sec-°R}$

# NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Definition</u>
HREF, HREF-FR	Reference heat-transfer coefficient based on Fay-Riddell theory, Btu/ft <sup>2</sup> -sec-°R
	$HREF = \frac{8.139(P01)^{0.5} (MU-0)^{0.4} (1 - P-INF/P01)^{0.25}}{(RN)^{0.5} (T0)^{0.15}} \times$ $[0.2235 + 0.0000135 [T0 + 560]]$
where	
	P01 ≈ stagnation pressure downstream of a normal shock, psia
	MU-0 ≈ air viscosity based on T0, lbf-sec/ft <sup>2</sup>
	RN ≈ reference nose radius, (0.175 ft)
L	Model centerline reference length, in. (see Fig. 1)
MACH	Free-stream Mach Number
MU-INF, MU	Free-stream viscosity, lb-sec/ft <sup>2</sup>
THETA, θ	Thermocouple orientation angle in the orbiter cross-sectional plane, deg (Fig. 1)
P-INF, P	Free-stream pressure, psia
P0	Tunnel stilling chamber pressure, psia
Q-DOT, QDOT	Heat-transfer rate, Btu/ft <sup>2</sup> -sec
Q-INF, Q	Free-stream dynamic pressure, psia
RE/FT	Free-stream Reynolds number per foot, ft <sup>-1</sup>
RHO-INF, RHO	Free-stream density, slug/ft <sup>3</sup>
ROLL-MODEL	Model roll angle, deg.
ST FR	Theoretical stagnation point Stanton number for a 0.0175-ft (1 scale foot) radius sphere calculated from Fay-Riddell theory

# NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Definition</u>
	$ST\ FR = \frac{HREF}{(RHO-INF)(V-INF)[0.2235 + 0.0000135(TO + 560)](32.174)}$
t	Time from start of model injection cycle, sec
TAW	Calculated adiabatic wall temperature, °R  $TAW = TO \times [0.867 + 0.133(\sin^{1.55}\Delta)]$ for thermocouples listed in Table V  $TAW = 0.9 \times TO$ for thermocouples not listed in Table V
T/C NO	Thermocouple number
T-INF, T	Free-stream temperature, °R
TO	Tunnel stilling chamber temperature, °R
TW	Model wall temperature, °R
V-INF, V	Free-stream velocity, ft/sec
w	Model wall density, lbm/ft <sup>3</sup>
X	Longitudinal coordinate with origin at model nose, in. (see Fig. 1)
X <sub>0</sub>	Longitudinal coordinate with origin 235 in. (full scale) upstream of the vehicle nose, in.
XV	Longitudinal coordinate with origin at vertical tail leading edge, in. (see Fig. 1)
XW	Longitudinal coordinate with origin at wing leading edge, in. (see Fig. 1)
Y	Lateral coordinate, in. (see Fig. 1)
YAW, $\psi$	Model yaw angle, deg
Z	Vertical coordinate, in. (see Fig. 1)
$\beta$	Sideslip angle, degrees ( $\beta = -\psi$ )

NOMENCLATURE (Concluded)

<u>Symbol</u>	<u>Definition</u>
X/L	Non-dimensionalized fuselage station
ZV	Vertical coordinate from Z = 500, in. (See Fig. 1)
H/HREF	Ratio of model heat-transfer coefficient to heat-transfer coefficient of reference sphere

SUBSCRIPT

i	Initial condition
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## CONFIGURATIONS INVESTIGATED

The test article was a 0.0175-scale thin-skin thermocouple model of the Rockwell International Vehicle-Four configuration lightweight orbiter. This configuration is defined on Rockwell Drawing VL70-000140B. Dimensional data are given in Table III, and a sketch of the orbiter is shown in figure 1.

Provisions were made to test the reentry mode orbiter with the following movable control surface deflections:

Elevons:	0, 5, 10, 15, -7, -30 deg
Rudder Speed Brake:	0, 40 deg
Body Flap:	0, 5, 15, 22 deg

The structural area of the model is constructed of 17-4 PH with instrumentation areas of 15-5 PH and 17-4 stainless steel. The nominal skin thickness at instrumentation areas was 0.030 in.

The following nomenclature was used to describe model components for the vehicle 4 configuration 22-OT model:

B <sub>25</sub>	Basic fuselage body of double delta vehicle 4 configuration lightweight orbiter per Rockwell Drawing VL70-000140B
C <sub>10</sub>	Canopy per drawing number VL70-000140B
E <sub>26</sub>	Elevon with wing W <sub>116</sub> trailing edge sweep back angle of -10.25°. Drawing number VL70-000140B
F <sub>10</sub>	Body flap, VL70-000140B Drawing
M <sub>4</sub>	Orbital maneuvering system pods (OMS) per drawing number VL70-000139
R <sub>5</sub>	Rudder, drawing number VL70-000025 and VL70-000139

CONFIGURATIONS INVESTIGATED (Concluded)

V <sub>7</sub>	Centerline vertical tail double wedge aerofoil with rounded leading edge per drawing number VL70-000095 and VL70-000139
W <sub>116</sub>	Double delta wing per drawing number VL70-000140B

## INSTRUMENTATION

The orbiter model was instrumented with 31 $\frac{1}{2}$  iron-constantan thermocouples spot-welded to the model inner surface. The orbiter instrumentation reference system is shown in Figure 1.

Instrumentation locations are illustrated in Figures 2a through 2e. The dimensional locations of the instrumentation and the local skin thickness at each position are given in Table IV.

## TEST FACILITY DESCRIPTION

Tunnel B is a continuous, closed-circuit, variable density wind tunnel with an axisymmetric contoured nozzle and a 50-inch-diameter test section. The tunnel can be operated at a nominal Mach number of 6 or 8 at stagnation pressures from 20 to 300 and 50 to 900 psia, respectively, at stagnation temperatures up to 1350°R. The model can be injected into the tunnel for a test run and then retracted for model cooling or model changes without interrupting the tunnel flow. A description of the tunnel may be found in Reference 3.

## TEST PROCEDURE

Thermocouple outputs were recorded using the VKF digital data scanner in conjunction with a Beckman 210 digital data system. The thermocouple outputs were scanned at the rate of 20 times per second starting at the beginning of model injection and continuing until about 3 seconds after the model reached tunnel centerline. After each injection, the model was cooled to an isothermal state using high-pressure air and any required control surface deflections were effected manually.

## DATA REDUCTION

The reduction of thin-skin thermocouple data normally involves only the calorimetric heat balance, which, in coefficient form, is

$$H(TO) = wbc_p \frac{dT_W/dt}{TO - T_W} \quad (1)$$

Radiation and conduction losses are neglected in this heat balance, and data reduction simply requires evaluation of  $dT_W/dt$  from the temperature-time data and determination of model material properties. For the present tests, radiation effects were negligible; however, conduction effects were significant in several regions of the models. To permit identification of these regions and improve evaluation of the data, the following procedure was used.

Separation of variables and integration of Eq. (1), assuming constant  $w$ ,  $b$ ,  $c_p$ , and  $TO$ , yields

$$\frac{H(TO)}{wbc_p} (t - t_1) = \ln \frac{TO - TW_1}{TO - TW} \quad (2)$$

Since  $H(TO)/wbc_p$  is a constant, plotting  $\ln (TO - TW_1)/(TO - TW)$  versus time will give a straight line if conduction is negligible. Thus, deviations from a straight line can be interpreted as conduction effects.

The data were evaluated in this manner, and generally a reasonably linear portion of the curve could be found for all thermocouples. A linear least-squares curve fit of  $\ln (TO - TW_1)/(TO - TW)$  versus time was applied to the data beginning at the time when the model reached uniform flow and extending for a time span which was a function of the heating rate, as shown below:

# DATA REDUCTION (Continued)

<u>Range</u>	<u>Number of Points</u>
$dTW/dt > 32$	5
$16 < dTW/dt \leq 32$	7
$8 < dTW/dt \leq 16$	9
$4 < dTW/dt \leq 8$	13
$2 < dTW/dt \leq 4$	17
$1 < dTW/dt \leq 2$	25
$dTW/dt < 1$	41

In general, the time spans given above were adequate to keep the evaluation of the right-hand side of Eq. (2) within the linear region. Strictly speaking, the value of  $c_p$  is not constant, as assumed, and the following relations

$$c_p = 0.0645 + (5.8 \times 10^{-5})TW, (15-5 \text{ PH stainless steel})$$

$$c_p = 0.0797 + (5.556 \times 10^{-5})TW, (17-4 \text{ PH stainless steel})$$

were used with the value of TW at the midpoint of the curve fit. The maximum variation of  $c_p$  over any curve fit was less than 1.2 percent; thus, the assumption of constancy was not grossly violated. The value of density used for each type steel was

$$w = 490.75 \text{ lbm/ft}^3 (15-5 \text{ PH stainless steel})$$

$$w = 490.0 \text{ lbm/ft}^3 (17-4 \text{ PH stainless steel})$$

Uncertainties of the basic tunnel parameters were estimated from repeat calibrations of the PO and TO instruments and from the repeatability and uniformity of the tunnel flow during calibrations. The parameters, PO, TO, and MACH NO., with their uncertainties, were then used to compute the uncertainties in the other parameters dependent on these by means of the Taylor series method of error propagation.

# DATA REDUCTION (Concluded)

## Uncertainty, percent

<u>MACH NO.</u>	<u>PO</u>	<u>TO</u>	<u>RE/FT</u>
±0.3	±0.5	±0.5	±1.2

Estimated uncertainties for the individual terms in Eq. (2) were used in the Taylor series method of error propagation to obtain uncertainty in values of heat-transfer coefficient as given below:

<u>H(TO)</u>	<u>Uncertainty, percent</u>
$10^{-4}$	10
$10^{-3}$	7
$10^{-2}$	5

A complete set of the tabulated data is presented in the Appendix of this report.



#### REFERENCES

1. Martindale, W. R., Kaul, C. E., and Nutt, K. W., "Test Results from the NASA/Rockwell International Space Shuttle Orbiter Heating Test (OH49B) Conducted in the AEDC-VKF Tunnel B," AEDC-DR-74-73, September 5, 1974.
2. Grifall, W. J., "Pretest Information for Testing of the 22-OT 0.0175 Thin-Skin Thermocouple Model in the AEDC 50' B Wind Tunnel Test OH49B," SD74-SH-0131, March 20, 1974.
3. Test Facilities Handbook (Tenth Edition). "von Karman Gas Dynamics Facility, Vol. 3." Arnold Engineering Development Center, May, 1974.

TABLE I.

TEST : OH49B (AEDC V41B-57A)

DATE : 9/5/74

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit foot) $\times 10^{-6}$	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE $^{\circ}\text{R}$
7.90	0.5		1270
7.94	1.0		1275
7.97	1.5		1290
7.98	2.0		1300
7.99	2.5		1310
7.99	3.0		1340
8.00	3.3		1340
8.00	3.7		1350

BALANCE UTILIZED: \_\_\_\_\_

	CAPACITY:	ACCURACY	COEFFICIENT TOLERANCE.
NI	_____	_____	_____
SF	_____	_____	_____
AF	_____	_____	_____
FM	_____	_____	_____
RM	_____	_____	_____
YM	_____	_____	_____

COMMENTS: Instrumentation consisted of thermocouples only.

TABLE II. TEST SUMMARY

DATASET IDENTIFIER	CONFIGURATION	$\alpha$	$\psi$	$\delta_{BF}$	$\delta_e$	$\delta_{SB}$	R E / F T x 1.0 - 6								
							0.5	1.0	1.5	2.0	2.5	3.0	3.3	3.7	
RV1A01	ORBITER	20	0	0	0	0	166-168	139-141	119-120	85-87	67-69	46-48	28-30	1-3	
02		25					169-171	142-144	121-123	88-90	70-72	49-51	31-33	4-6	
03		30					172-174	145-147	124-126	91-93	73-75	52-54	34-36	7-9	
04		30	2				175-177	148-150		94-96				10-12	
05		35	0				178-180	151-153	127-129	97-99	76-78	55-57	37-39	13-15	
06		40					181-183	154-156	130-132	100-102	79-81	58-60	40-42	16-18	
07		40	2				184-186	157-159		103-105				19-21	
08		45	0				187-189	160-162	133-135	106-108	82-84	61-63	43-45	22-24	
09		50					190-192	163-165	136-138	109-111	115-117	64-66	112-114	25-27	
Y10			20	0	5	0	0	193-194	199-200	118				209-210	
11			30					195-196	201-202		205-206				211-212
12			40					197-198	203-204		207-208				213
13			20	0	15	0	0	246-247	228-229					215-216	
14			30					248-249	230-231					217-218	
15			40					250-251	232-233					219-220	
16			20	0	22	0	0	240-241	234-235					221-222	
17			30					242-243	236-237					223-224	
18			40					244-245	238-239					225-226	
19			20	0	0	5	0	264-265	270-271	288-289		316-317		310-311	
20			30					266-267	272-273	290-291		318-319		312-313	
21			40					268-269	274-275	292-293		320-321		314-315	
22			20	0	15	5	0	252-253	282-283					306-307	
23			30					254-255	284-285	298-299		322-323		308-309	
24			40					256-257	286-287	300-301		324-325			
25			20	0	22	5	0	258-259	276-277	294-295		326-327		302-303	
26			30					260-261	278-279	296-297		328-329		304-305	
27			40					262-263	280-281						

NOTE: All angles given in degrees.

B = ORBITER FUSELAGE  
 L = LOWER WING SURFACE  
 U = UPPER WING SURFACE  
 T = VERTICAL TAIL

X VALUES B, L, U, T  
 Y VALUES B, L

TABLE II. TEST SUMMARY (Concluded)

DATASET IDENTIFIER	CONFIGURATION	$\alpha$	$\psi$	$\delta_{BF}$	$\delta_e$	$\delta_{SB}$	RE / FT x 10 - 6								
							0.5	1.0	1.5	2.0	2.5	3.0	3.3	3.7	
RV128		30 40	0	0	10	0	338-339 340-341				334-335 336-337				330-331 332-333
29															
30		20	0	0	15	0					360-361 362-363 364-365		356-357 358-359		342-343 344-345 346-347
31		30													
32		40													
33		30	0	15	15	0					366-367 368-369		352-353 354-355		348-349 350-351
34		40													
35		20	0	0	15	40	380-381 382-383 384-385	374-375 376-377 378-379							
36		30													
37		40													
38		30	0	15	15	40	386-387 388-389	370-371 372-373							
39		40													
40		20	0	15	-7	40	390-392 393-395 396-398	399-401 402-404 405-407			408-410 411-413 414-416				417-419 420-422 423-425
41		30													
42		40													
43		20	0	15	-30	40	450-452 444-446 447-449	438-440 441-443			453-455 432-434 435-437				426-428 429-431
44		30													
45		40													

NOTE: All angles given in degrees.

X VALUES B, L, U, T

Y VALUES B, L

B = ORBITER FUSELAGE  
L = LOWER WING SURFACE  
U = UPPER WING SURFACE  
T = VERTICAL TAIL

TABLE III. MODEL DIMENSIONAL DATA

MODEL COMPONENT: BODY B<sub>25</sub>

GENERAL DESCRIPTION: Vehicle 4 Orbiter Fuselage

MODEL SCALE: 0.0175

DRAWING NUMBER: VL70-000200, 202, 203 VL70-000140B

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length, In. (Nose at X = 235)	1293.3	
Max. Width, In. @ X = 1520	232	
Max. Depth, In. @ X = 1450	248.5	

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: CANOPY  $C_{10}$

GENERAL DESCRIPTION: Configuration 4 canopy and windshield as used with B25, 6 glass panes in windshield

MODEL SCALE: 0.0175

DRAWING NUMBER: VL70-000140B, 140C, 202B

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length $X_0 = 434.643$ to 670 -- In.	235.357	
Max Width		
Max Depth, glass -- In.	28.000	

Nose/windshield intersection,  $X_0 = 434.643$

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: ELEVON - E<sub>26</sub>

GENERAL DESCRIPTION: Configuration 4

NOTE: VL70-000400 data for (1) of (2) sides. Identical to E<sub>25</sub>  
except airfoil thickness

MODEL SCALE: 0.0175

DRAWING NUMBER: VL70-000200, VL70-000140B

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Area	223.5814	
Span (equivalent)	368.34	
Inb'd equivalent chord	119.623	
Outb'd equivalent chord	55.1922	
Ratio movable surface chord/total surface chord		
At Inb'd equiv. chord	0.2096	0.2096
At Outb'd equiv. chord	0.4004	0.4004
Sweep Back Angles, degrees		
Leading Edge	0.00	0.00
Trailing Edge	- 10.056	- 10.056
Hingeline	0.00	0.00
Area Moment (Normal to hinge line)	851.1502	

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: Body Flap  $F_{10}$

GENERAL DESCRIPTION: Vehicle 4 body flap with hingeline at  $X_0 = 1532$ ,

$Z_0 = 287$

MODEL SCALE: 0.0175

DRAWING NUMBER: VL70-000140B, 140C VL70-000200, 200A\*\*

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Area, $\text{ft}^2$	133.71	
Span (equivalent), In.	255.42	
Inb'd equivalent chord, In.	81.00	
Outb'd equivalent chord, In.	81.00	
Ratio movable surface chord/total surface chord		
At Inb'd equiv. chord	1.00	1.00
At Outb'd equiv. chord	1.00	1.00
Sweep Back Angles, degrees		
Leading Edge	0	0
Trailing Edge	0	0
Hingeline	0	0
Area Moment (Normal to hinge line) - $\text{ft}^3$	439.92	
** Hingeline shown on -200, -200A drawing is inconsistent with Configuration Control Drawing and should be ignored. Platform dimensions have been utilized.		
Maximum height, In.	20.6	
Base Area, $\text{ft}^2$	36.53	



TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: OMS POD - M<sub>4</sub>

GENERAL DESCRIPTION: Orbital Maneuvering System Pods Located on the  
Orbiter Aft Fuselage

MODEL SCALE: 0.0175

DRAWING NUMBER: VL70-000139

DIMENSION:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - In.	346.0	6.0550
Max Width - In.	108.0	1.890
Max Depth - In.	113.0	113.0

Ø of OMS Pod

WP = 463.9 IN. FS: WT 400 + 63.9 = 463.9

RP = 80.0 IN. FS

Length 1214.0 to 1560.0 = 346.0 IN. FS

NOTE: M<sub>4</sub> identical to M<sub>3</sub> of 2A configuration, except  
intersection to body.

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: RUDDER - R<sub>5</sub>

GENERAL DESCRIPTION: 2A, 3 and 3A Configuration per Rockwell Lines  
VL70-000095

MODEL SCALE: 0.0175

DRAWING NUMBER: VL70-000139, VL70-000095

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Area - Ft <sup>2</sup>	106.38	0.03258
Span (equivalent) - In.	201.0	3.5175
Inb'd equivalent chord	91.585	1.60274
Outb'd equivalent chord	50.833	0.88958
Ratio movable surface chord/total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Trailing Edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Normal to hinge line), Ft <sup>3</sup> Product of Area and Mean Chord	526.13	0.00282

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: VERTICAL - V<sub>7</sub>

GENERAL DESCRIPTION: Centerline vertical tail, double wedge airfoil with rounded leading edge.

NOTE: Same as V<sub>5</sub>, but with manipulator housing removed.

MODEL SCALE: 0.0175

DRAWING NUMBER: VL70-000139, VL70-000095

DIMENSIONS:

TOTAL DATA

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Area (Theo), Ft <sup>2</sup>	425.92	0.13044
Planform		
Span (Theo), In	315.72	5.52510
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.404	0.404
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.249	26.249
0.25 Element Line	41.130	41.130
Chords:		
Root (Theo) WP	268.50	4.69875
Tip (Theo) WP	108.47	1.89822
MAC	199.81	3.49667
Fus. Sta. of .25 MAC	1463.50	25.61125
W. P. of .25 MAC	635.522	11.12164
B. L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle, Deg.	10.000	10.000
Trailing Wedge Angle, Deg.	14.920	14.920
Leading Edge Radius	2.0	0.0350
Void Area - Ft <sup>2</sup>	13.17	0.00403
Blanketed Area	0.00	0.00

TABLE III. MODEL DIMENSIONAL DATA (Concluded)

MODEL COMPONENT:	WING - W <sub>116</sub>	
GENERAL DESCRIPTION:	Configuration 4 NOTE: Identical to W <sub>114</sub> except airfoil thickness. Dihedral angle is along trailing edge of wing.	
MODEL SCALE:	0.0175	DRAWING NO.: VL70-000140B, VL70-000200
DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
TOTAL DATA		
Area (Theo.) Ft <sup>2</sup>	2690.00	
Span (Theo.) In.	936.6816	
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	0.500	0.500
Aerodynamic Twist, degrees	+ 3.000	+ 3.000
Sweep Back Angles, degrees		
Leading Edge	45.00	45.00
Trailing Edge	- 10.056	- 10.056
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.O.O.	689.2429	
Tip, (Theo) B.P.	137.8486	
MAC	474.8117	
Fus. Sta. of .25 MAC	1126.721	
W.P. of .25 MAC	291.00	
B.L. of .25 MAC	187.33491	
EXPOSED DATA		
Area (Theo) Ft <sup>2</sup>	1812.2205	
Span, (Theo) In. BP108	736.6816	
Aspect Ratio	2.058	2.058
Taper Ratio	0.2451	0.2451
Chords		
Root BP108	570.6230	
Tip 1.00 b/2	137.8512	
MAC	354.2376	
Fus. Sta. of .25 MAC	1164.237	
W.P. of .25 MAC	292.00	
B.L. of .25 MAC	239.67786	
Airfoil Section (Rockwell Mod NASA)XXXX-64		
Root b/2 =	0.113	0.113
Tip b/2 =	0.12	0.12
Data for (1) of (2) Sides		
Leading Edge Cuff		
Planform Area Ft <sup>2</sup>	118.333	
Leading Edge Intersects Fus M. L. @ Sta	505.0	
Leading Edge Intersects Wing @ Sta	1003.5	

TABLE IV. LOCAL MODEL DEFLECTION ANGLES

	DEG		DEG		DEG		DEG
T/C No.	€	T/C No.	€	T/C No.	€	T/C No.	€
1	90.0	21	2.3	818	-4.5	838	-3.8
2	50.0	22	2.0	819	-4.5	839	-4.5
3	35.5	23	1.4	820	-4.5	840	-4.5
4	23.0	801	1.0	821	-4.5	841	-4.5
5	17.7	802				842	-4.5
6	14.4	803		823	1.0		
7	12.0	804		824		845	90.0
8	10.3	805		825		846	8.0
9	8.6	806		826		847	6.75
10	7.3	807		827		848	4.6
11	6.4	808		828	-2.0	849	3.25
12	5.5	809		829	-3.2	850	2.75
14	4.3	810				851	1.0
15	3.9	811		831	1.0	852	1.1
16	3.6	812	1.0	832		853	0.75
17	3.4	813	-1.5	833		854	-0.5
18	3.1	814	-2.0	834		855	-5.7
19	2.8	815	-2.6	835		856	-8.0
20	2.6	816	-3.2	836	-2.0		
		817	-3.8	837	-3.2	857	90.0

TABLE IV. LOCAL MODEL DEFLECTION ANGLES (Concluded)

	DEG		DEG		DEG		DEG
T/C No.	ε	T/C No.	ε	T/C No.	ε	T/C No.	ε
858	90.0	879	90.0	900	1.2	921	2.0
859	12.5	880	90.0	901	1.2	922	90.0
860	6.9	881	16.75	902	1.0	923	3.75
861	2.5	882	10.5	903	-7.5	924	3.0
862	1.1	883	6.25	904	90.0	925	2.25
863	1.0	884	4.0	905	18.0	926	1.75
864	1.6	885	1.5	906	9.0	927	-3.0
865	1.1	886	1.5	907	4.5	928	-7.75
866	0.2	887	1.75	908	2.1	929	90.0
867	-3.5	888	1.1	909	1.6	930	8.5
868	-7.5	889	1.0	910	1.5	931	5.0
869	-9.25	890	-0.5	911	1.0	932	2.5
870	90.0	891	-3.5	912	-3.4	933	2.0
871	90.0	892	-4.6	913	-7.4	934	1.5
872	11.2	893	-8.0	914	-8.9	935	-0.5
873	5.0	894	-9.25	915	90.0	936	-4.5
874	2.0	895	90.0	916	2.0	937	-7.5
875	1.5	896	90.0	917	1.75		
876	1.25	897	17.5	918	-7.25		
877	1.0	898	4.5	919	90.0		
878	0.6	899	2.25	920	2.5		

TABLE V. ORBITER THERMOCOUPLE LOCATIONS

T/C No.	X/L	FULL SCALE			MODEL SCALE			$\theta$	Skin Thickness	Mat'l	Remarks
		X <sub>0</sub>	Y	Z <sub>0</sub>	X from nose	Y	Z				
1	0	235.0	0	-	0	0	-	0		17-4	Bottom $\ell$
2	.005	241.47			.113						
3	.010	247.93			.226						
4	.020	260.87			.453						
5	.030	273.80			.679						
6	.040	286.73			.905						
7	.050	299.67			1.132						
8	.060	312.60			1.358						
9	.070	385.33			1.584						
10	.080	338.46			1.811						
11	.090	351.40			2.037						
12	.100	364.33			2.263						
14	.120	390.20			2.716						
15	.130	403.13			2.942						
16	.140	416.06			3.169						
17	.150	429.00			3.395						
18	.160	441.93			3.621						
19	.170	454.86			3.848						
20	.180	467.79			4.074						
21	.190	480.73			4.300						
22	.200	493.66			4.527						
23	.225	525.99			5.092						
801	.250	558.33			5.658						
802	.300	622.99			6.790						
803	.350	687.66			7.922						
804	.400	752.32			9.053						
805	.450	816.99			10.185						
806	.500	881.65			11.316						
807	.550	946.32			12.448						
808	.600	1010.9			13.580						
809	.650	1075.6			14.711						
810	.700	1140.3			15.843						
811	.750	1204.9			16.975						
812	.800	1269.6	↓	↓	18.106	↓	↓	↓		↓	↓

TABLE V. ORBITER THERMOCOUPLE LOCATIONS (Continued)

T/C No.	X/L	FULL SCALE			MODEL SCALE			$\theta$	Skin Thickness	Mat'l	Remarks
		X <sub>0</sub>	Y	Z <sub>0</sub>	X from nose	Y	Z				
813	.850	1324.3	0	-	19.063	0	-	0		17-4	Bottom $\ell$
814	.900	1398.9			20.359						
815	.925	1431.3			20.935						
816	.950	1463.6			21.501						
817	.975	1495.9			22.067						
818	1.015	1547.7			22.972						
819	1.03	1567.7			23.312						
820	1.045	1586.5			23.651						
821	1.06	1605.0			23.977						
59	.010	247.93			.226			180			Top $\ell$
60	.025	267.33			.565						
61	.050	299.67			1.129						
62	.075	332.0			1.694						
63	.100	364.33			2.258						
64	.125	396.66			2.823						
65	.150	429.0			3.387						
66	.160	441.93			3.613						
67	.170	459.86			3.839						
68	.180	467.79			4.064						
69	.200	493.66			4.516						
72	.401	754.12			9.085				.030	15-5	
73	.500	883.15			11.343				.030		
74	.601	1012.18			13.601				.031		
75	.701	1141.21			15.859				.032		
76	.801	1270.24			18.117				.030		
77	-	-	29.60	478.0	-	.518	8.365	-		17-4	Window #1 Top Lt
78			12.80	478.0		.224	8.365				Top Rt
79			21.20	464.9		.371	8.137				Center
80			34.40	452.0		.602	7.910				Bot. Lt
81			6.00	452.0		.105	7.910				Bot. Rt
82			43.20	478.0		.756	8.365				Window #2 Top Lt
83			34.80	478.0		.609	8.365				Top Rt
84			44.80	464.9		.784	8.137				Center
85			59.20	452.0		1.036	7.910				Bot Lt



TABLE V. ORBITER THERMOCOUPLE LOCATIONS (Continued)

T/C No.	X, L	FULL SCALE			MODEL SCALE			θ	Skin Thickness	Mat'l	Remarks
		X <sub>0</sub>	Y	Z	X from nose	Y	Z				
86	-	-	40.40	452.0	-	.707	7.910	-		17-4	Window #2 Bot Rt
87	↓	↓	62.40	464.9		1.092	8.317	140			Window #3 Center
88	.100	364.3	20.00	-	2.263	0.350	-	10			Fuse. Bot. Surf.
89	.150	429.0	24.00		3.395	0.420		10			
90	.050	299.6	25.00		1.132	0.438		14			
91	.200	493.6	25.00		4.527	0.438		11.5			
93	.200	493.6	50.00		4.527	0.875		24			
822	.300	622.9	46.80		6.789	0.819		-			
823	.400	752.3			9.053						
824	.500	881.6			11.316						
825	.600	1019.9			13.579						
826	.700	1190.3			15.843						
827	.800	1269.6			18.106						
828	.900	1398.9			20.369						
829	.950	1463.6	↓		21.501	↓					
830	.300	622.9	93.60		6.789	1.638					
831	.400	752.3			9.053						
832	.500	881.6			11.316						
833	.600	1010.9			13.579						
834	.700	1140.3			15.843						
835	.800	1269.6			18.106						
836	.900	1398.6			20.369						
837	.950	1463.6			21.501						
838	.975	1495.9			22.067						
839	1.015	1547.7			22.972						
840	1.03	1567.7			23.312						
841	1.045	1586.4			23.652						
842	1.06	1605.8	↓		23.991	↓					
843	.900	1398.9	109.98		20.369	1.925					
844	.950	1463.6	117.00		21.501	2.048		↓			↓
103	.100	364.3	39.20		2.263	.686		20			Fuselage Side
104	.150	429.0	40.80	↓	3.395	.714	↓	20			
105	.050	299.6	-	303.6	1.132	-	5.313	22			CCL Tan
106	.100	364.3	52.00	-	2.263	.910	-	24.5		↓	↓

TABLE V. ORBITER THERMOCOUPLE LOCATIONS (Continued)

T/C No.	X/L	FULL SCALE			MODEL SCALE			$\theta$	Skin Thickness	Mat'l	Remarks
		$\lambda_0$	Y	Z	X from nose	Y	Z				
107	.150	429.0	62.00	-	3.395	1.085	-	25.5		17-4	Fus. Side CCL Tan
108	.200	493.6	65.60	287.2	4.527	1.148	5.026	31.5			
110	.200	493.6	75.60	292.0	4.527	1.323	5.110	35			
111	.150	429.0	79.20	304.8	3.395	1.386	5.334	40			
112	.200	493.6	85.20	298.8	4.527	1.491	5.229	40			
115	.050	299.6	-	325.6	1.132	-	5.698	35			MHB Tan
116	.100	364.3	-	317.6	2.263	-	5.558	39			
117	.150	429.0	83.60	314.4	3.395	1.463	5.502	45.5			
118	.200	493.6	-	320.0	4.527	-	5.600	51			
121	.076	333.2		350.0	1.720		6.125	-			RCS Center
127	.050	299.6		342.4	1.132		5.992	42.5			Tangent (Upper)
128	.020	493.6		360.0	4.527		6.300	67.5			
131	.050	299.6		378.4	1.132		6.622	60			45° Tangent
132	.100	364.3		410.0	2.263		7.175	119			
133	.200	493.6		410.0	4.527			96.5			Fuselage Side
969	.925	1431.5		300	20.939		5.250	-			
970				280			4.900				
971				271.6			4.753				
972	.950	1463.7		336	21.504		5.880				
973				308			5.390				
974				284			4.970				
975				275.6			4.823				
976	.975	1496.0		381.2	22.068		6.671				
977				336.8			5.894				
978				308			5.390				
979				290			5.075				
980				280.8			4.914				
135	.401	754.12		430.0	9.085		7.525	105	.033	15-5	Upper Body
136	.501	883.15			11.343				.032		
137	.601	1002.18			13.601				.032		
138	.701	1141.21			15.859				.032		
139	.800	1270.24			18.117				.032		
142	.401	754.12		-	9.085		-	135	.033		
143	.501	883.15		-	11.343		-		.031		

TABLE V. ORBITER THERMOCOUPLE LOCATIONS (Continued)

T/C No.	X/L	FULL SCALE			MODEL SCALE			$\theta$	Skin Thickness	Mat'l	Remarks
		X <sub>0</sub>	Y	Z	X from nose	Y	Z				
144	.601	1012.18	-	-	13.601	-	-	135	.033	15-5	Upper Body
145	.701	1141.21			15.859			135	.032		
146	.601	1012.18		↓	13.601		↓	113	.032		
147	↓	↓		440.0	↓		7.700	112	.032		
148	.751	1205.73		450.0	16.988		7.875	116	.032		
149	↓	↓		490.0	↓		8.575	149	.034		
241	.829	1307		-	18.760		-	-	.026		Bot. Crease of OMS
242	.900	1399.27			20.374				.035		
243	.975	1496.04	↓		22.068	↓			.030		
244	1.000	1528.3	121.42		22.633	2.125			.034		Bot. of RCS
245	1.014	1547.0	121.42	↓	22.960	2.125	↓		.035		
246	.780	1245	95.0	474.0	17.675	1.663	8.295		.032		OMS Pod
247	.805	1276	112.9		18.218	1.976			.031		
248	.829	1307	124.5		18.760	2.179			.031		
249	.862	1350	132.6		19.513	2.320			.035		
250	.963	1480	142.5		21.788	2.494			.028		
251	1.000	1528.3	142.5		22.633	2.494			.033		
252	1.014	1597.0	-	↓	22.960	-	↓		.033		
253	.805	1276	105.5	488	18.218	1.846	8.54		.032		
254	.829	1307	117.0	498.7	18.760	2.048	8.727		.033		
255	.862	1350	126.5	506	19.513	2.214	8.555		.031		
256	.963	1480	134.5	513	21.788	2.354	8.978		.028		
257	1.000	1528.3	-	500	22.633	-	8.750		.031		
258	1.014	1547.0	↓	↓	22.960	↓	8.750		.032		
259	.805	1276	95.0	494.3	18.218	1.663	8.650		.033		
260	.829	1307		511.0	18.760	1.663	8.943		.034		
261	.862	1350		521.0	19.513	1.663	9.118		.031		
262	.963	1480	↓	530.0	21.788	1.663	9.275		.027		
263	.862	1350	65	517.5	19.513	1.138	9.056		.031		
264	.963	1480	↓	527.0	21.788	1.138	9.223	↓	.026	↓	

TABLE V. ORBITER THERMOCOUPLE LOCATIONS (Continued)

[illegible]

TABLE V. ORBITER THERMOCOUPLE LOCATIONS (Continued)

T/C No.	$\frac{2Y}{b}$	X/C	FULL SCALE		MODEL SCALE		ELEVON T/C	Skin Thickness	Mat'l	Remarks
			X <sub>0</sub>	Y	X from L.E.	Y				
845	.300	0		140.51	0	2.459			17-4	Wing Lower Surf
846		.05			.670					
847		.10			1.34					
848		.20			2.68					
849		.30			4.02					
850		.40			5.36					
851		.50			6.70					
852		.60			8.04					
853		.70			9.38					
854		.80			10.72					
855		.90			12.06		X			
856		.95			12.73		X			
857	.350	0		163.9	0	2.869				
858	.400	0		187.3	0	3.278				
859		.05			.438					
860		.10			.876					
861		.20			1.753					
862		.30			2.629					
863		.40			3.506					
864		.50			5.258					
865		.60			6.135					
866		.70			6.573					
867		.80			7.449		X			
868		.90			7.888		X			
869		.95			8.326		X			
870	.450	0		210.7	0	3.688				
871	.500	0		234.1	0	4.098				
872		.05			.364					
873		.10			.727					
874		.20			1.454					
875		.30			2.181					
876		.40			2.908					
877		.50			4.362					
878		.60			6.543					

TABLE V. ORBITER THERMOCOUPLE LOCATIONS (Continued)

T/C No.	$\frac{2Y}{b}$	X/C	FULL SCALE		MODEL SCALE		ELEVON T/C	Skin Thickness	Mat'l	Remarks
			X <sub>0</sub>	Y	X from L.E.	Y				
879	.550	0		257.6	0	4.508			17-4	Wing Lower Surf.
880	.600	0		281.02	0	4.918				
881		.025			.157					
882		.05			.314					
883		.075			.470					
884		.10			.627					
885		.20			1.254					
886		.30			1.882					
887		.40			2.059					
888		.50			3.136					
889		.60			3.763					
890		.70			4.390					
891		.80			5.018		X			
892		.85			5.331		X			
893		.90			5.695		X			
894		.95			5.958		X			
895	.650	0		309.4	0	5.327				
896	.700	0		327.8	0	5.737				
897		.025			.133					
898		.10			.531					
899		.20			1.061					
900		.30			1.592					
901		.40			2.123					
902		.60			3.184					
903		.90			4.776					
904	.750	0		352.8	0	6.174				
905		.025			.121					
906		.05			.241					
907		.10			.483					
908		.20			.965					
909		.30			1.448					
900		.40			1.930					
911		.60			2.895					
912		.80			3.860		X			

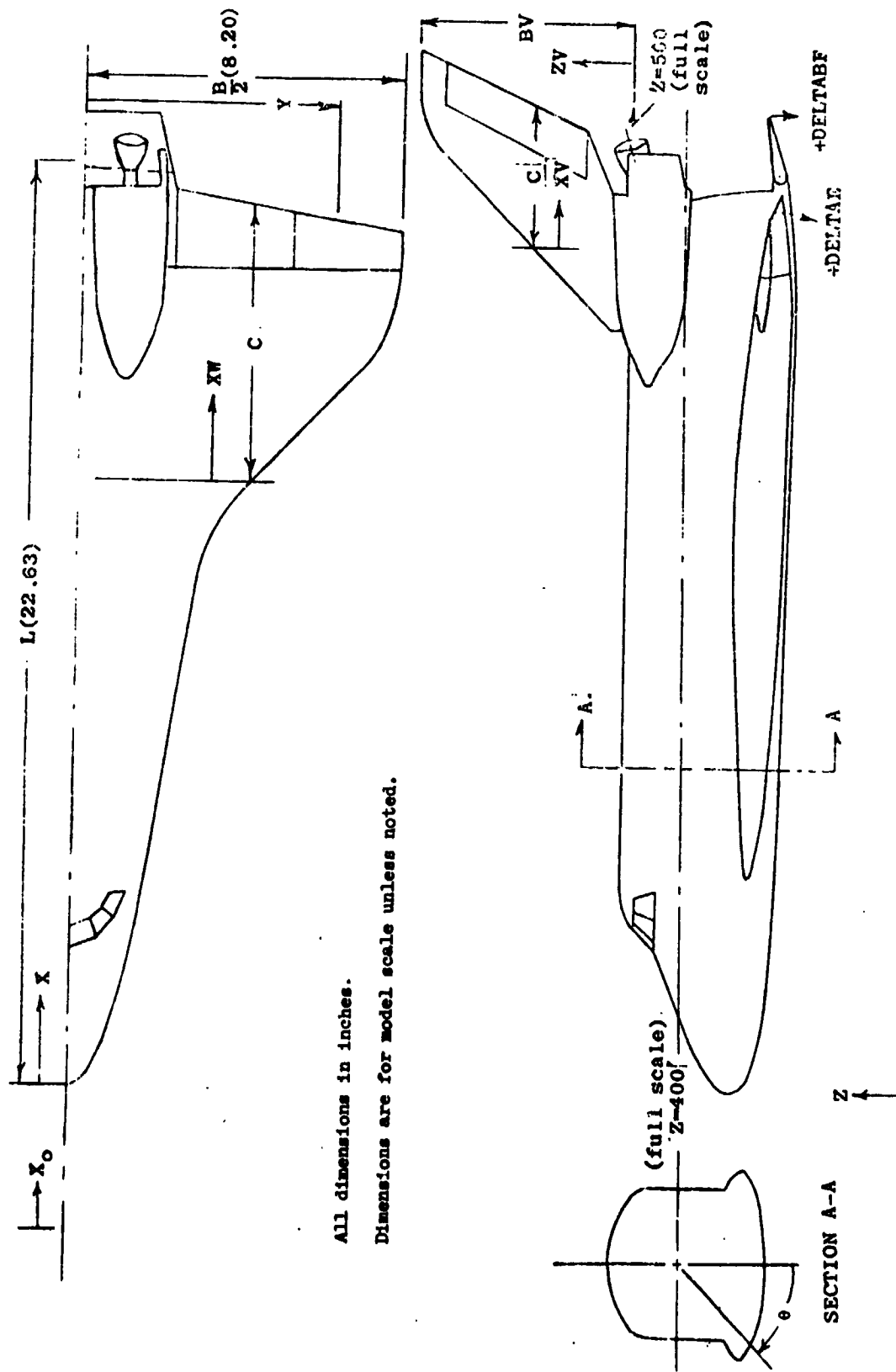
TABLE V. ORBITER THERMOCOUPLE LOCATIONS (Continued)

T/C No.	$\frac{2Y}{b}$	X/C	FULL SCALE		MODEL SCALE		ELEVON T/C	Skin Thickness	Mat'l	Remarks
			X <sub>0</sub>	Y	X from L.E.	Y				
913	.750	.90		352.8	4.343	6.174	X		17-4	Wing Lower Surf.
914	↓	.95		↓	4.584	↓	X			
915	.800	0		374.6	0	6.557				
916	↓	.20		↓	.868	↓				
917	↓	.40		↓	1.737	↓				
918	↓	.90		↓	3.908	↓	X			
919	.850	0		398.1	0	6.967				
920	↓	.20		↓	.772	↓				
921	↓	.40		↓	1.544	↓				
922	.900	0		421.4	0	7.376				
923	↓	.10		↓	.338	↓				
924	↓	.20		↓	.675	↓				
925	↓	.30		↓	1.013	↓				
926	↓	.50		↓	1.689	↓				
927	↓	.80		↓	2.702	↓	X			
928	↓	.90		↓	3.039	↓	X			
929	.950	0		444.9	0	7.786				
930	↓	.05		↓	.138	↓				
931	↓	.10		↓	.276	↓				
932	↓	.20		↓	.552	↓				
933	↓	.30		↓	.827	↓				
934	↓	.50		↓	1.379	↓				
935	↓	.70		↓	1.931	↓	X			
936	↓	.80		↓	2.206	↓	X			
937	↓	.90		↓	2.482	↓	X			
938	.250	.085		117.0	1.357	2.049				Wing Upper Surf.
939	↓	.135		↓	2.156	↓				
940	↓	.225		↓	3.593	↓				
941	.400	.05		187.3	.483	3.278				
942	↓	.20		↓	1.753	↓				
943	↓	.40		↓	3.506	↓				
944	↓	.60		↓	5.258	↓				
945	↓	.95		↓	8.326	↓	X			
946	.60	.025		281.0	.157	4.918				

1

1



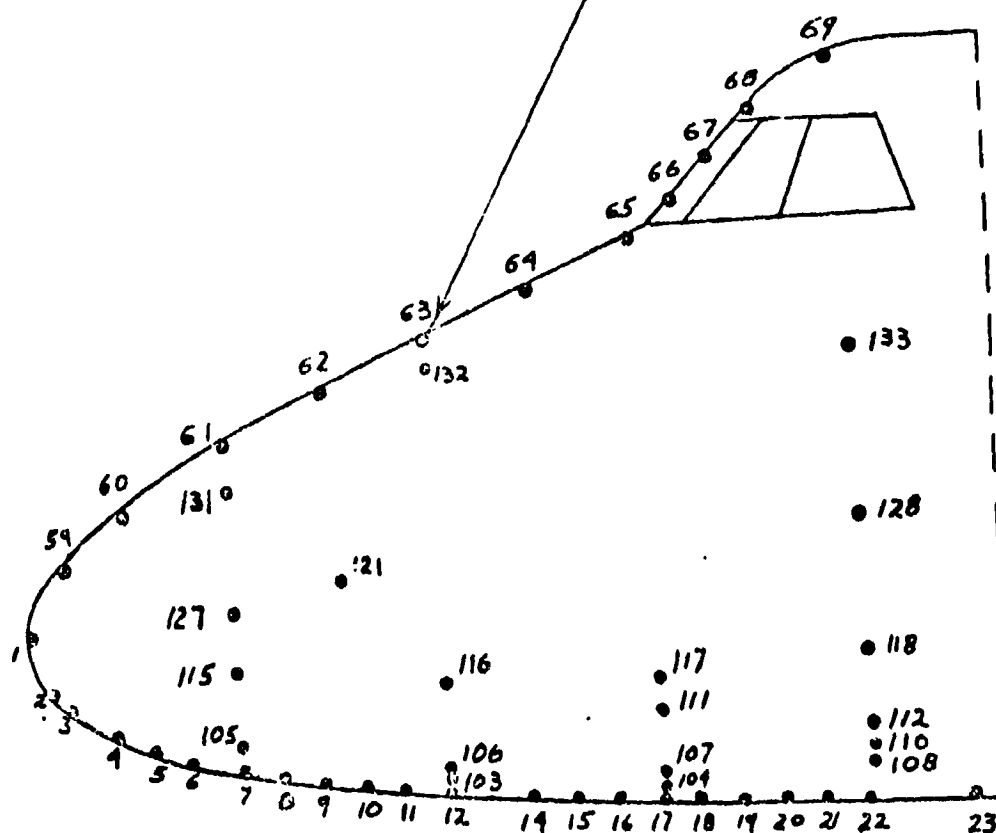


All dimensions in inches.

Dimensions are for model scale unless noted.

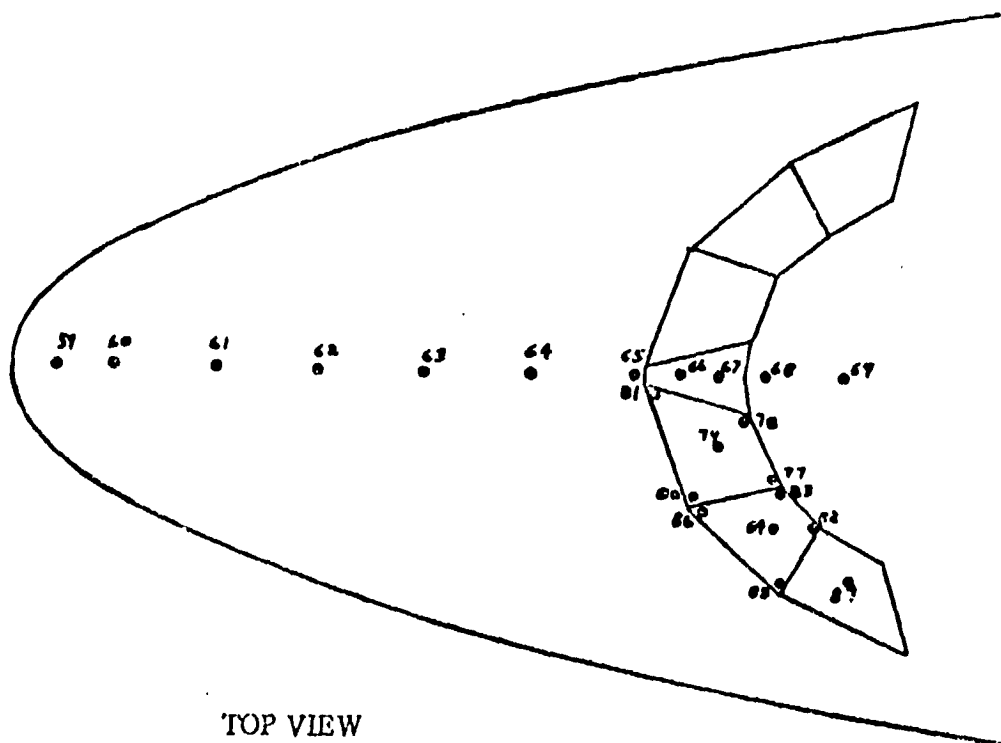
Figure 1. Orbiter model with instrumentation reference system.

Thermocouple Location (Typ.)

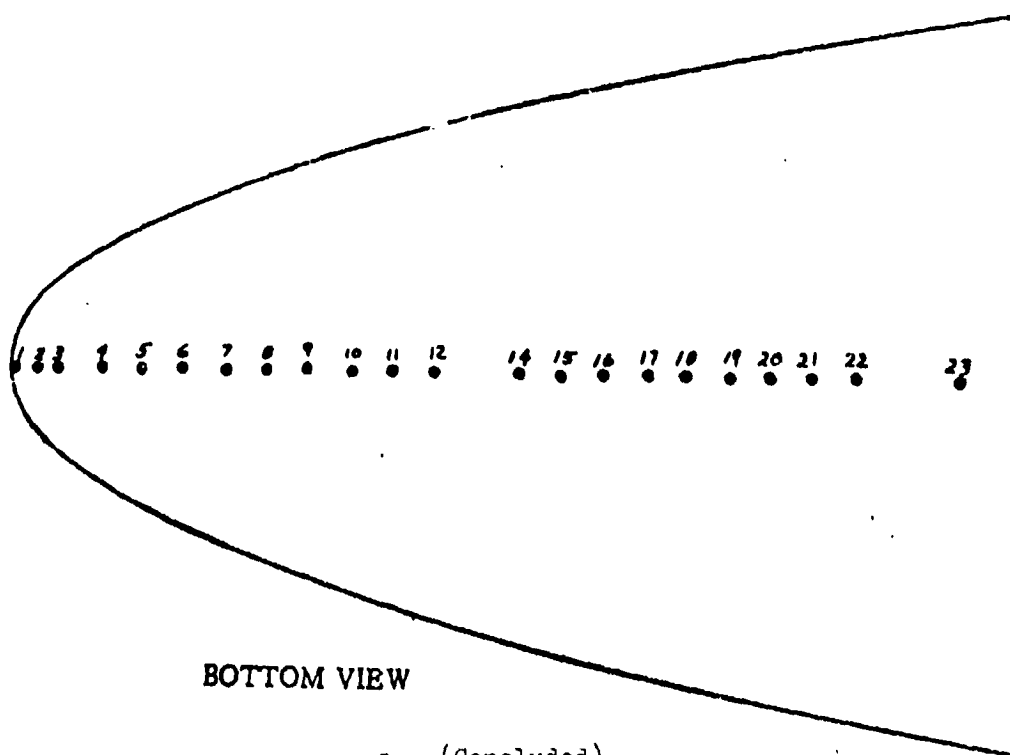


SIDE VIEW

a. Orbiter Model Nose and Cabin T/C Locations  
Figure 2. Model sketches.

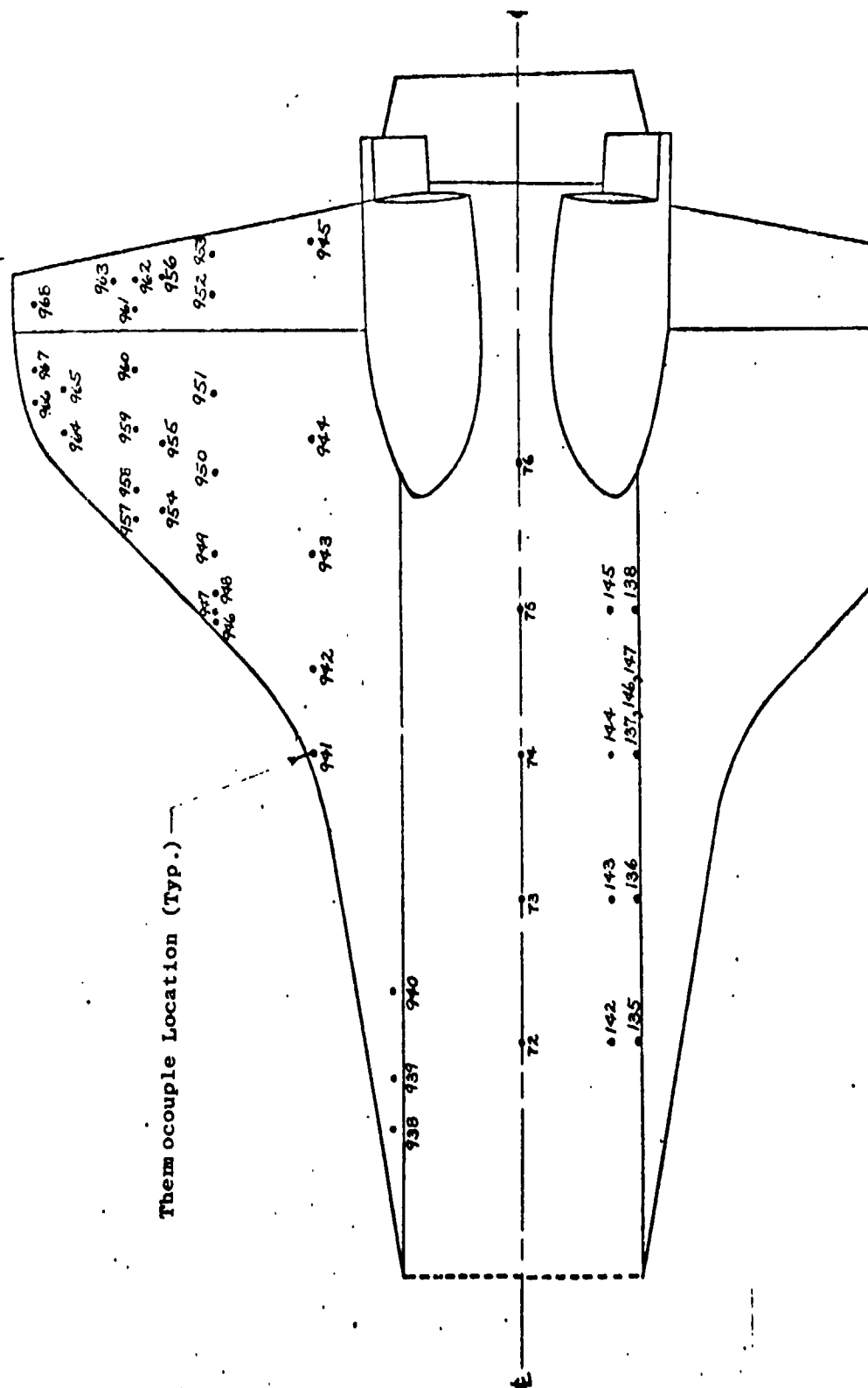


TOP VIEW

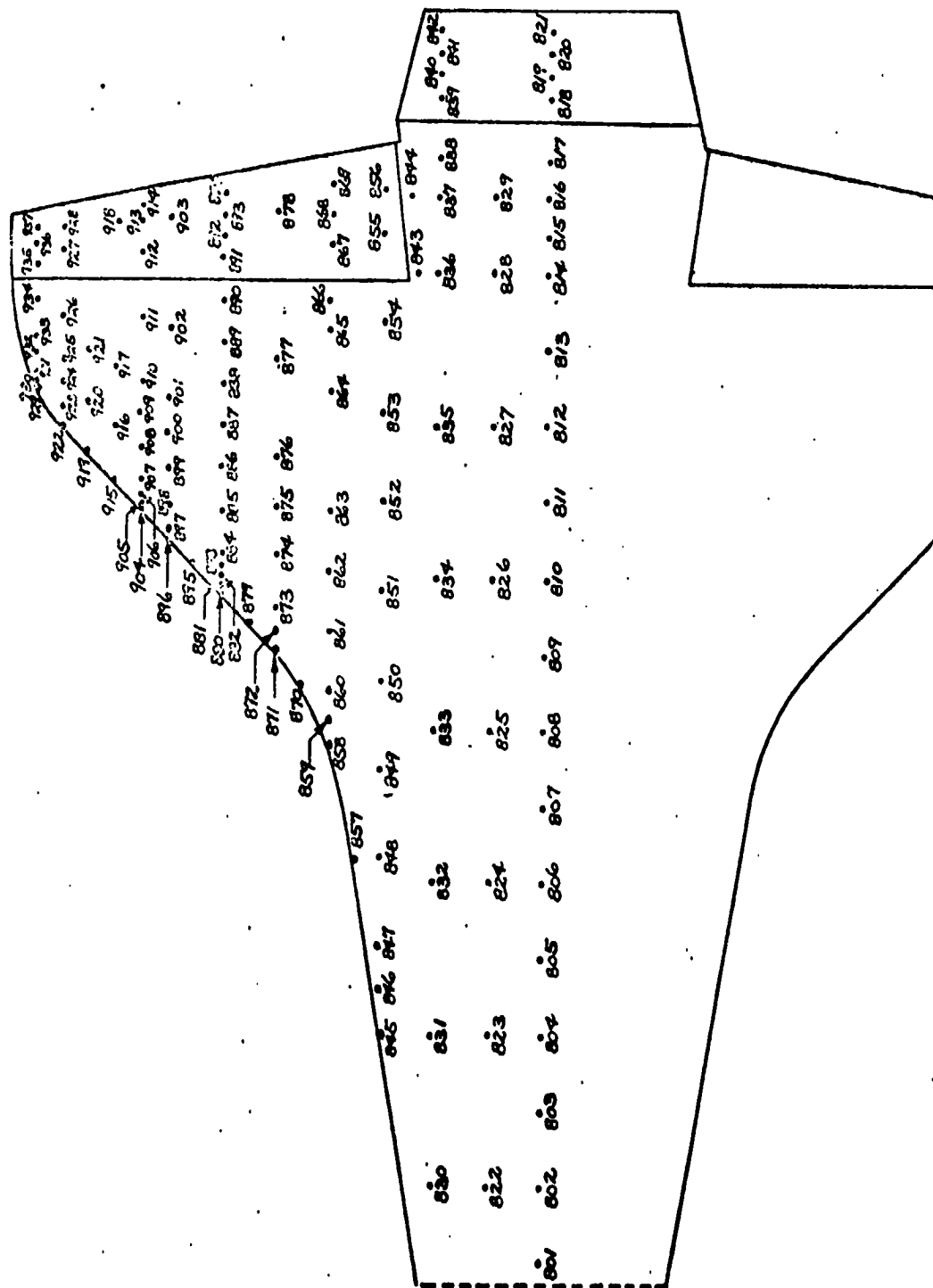


BOTTOM VIEW

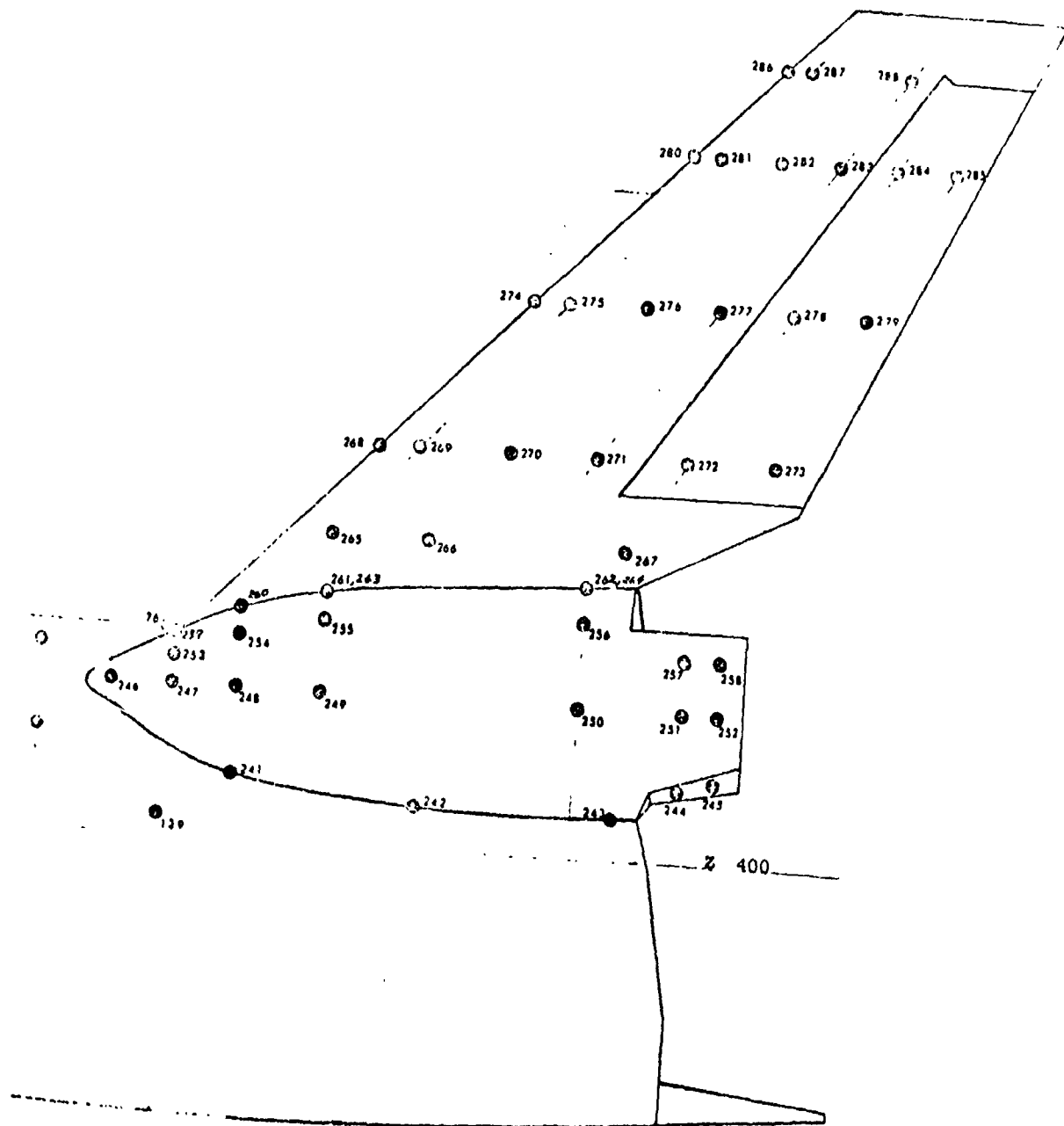
a. (Concluded)  
Figure 2. Continued.



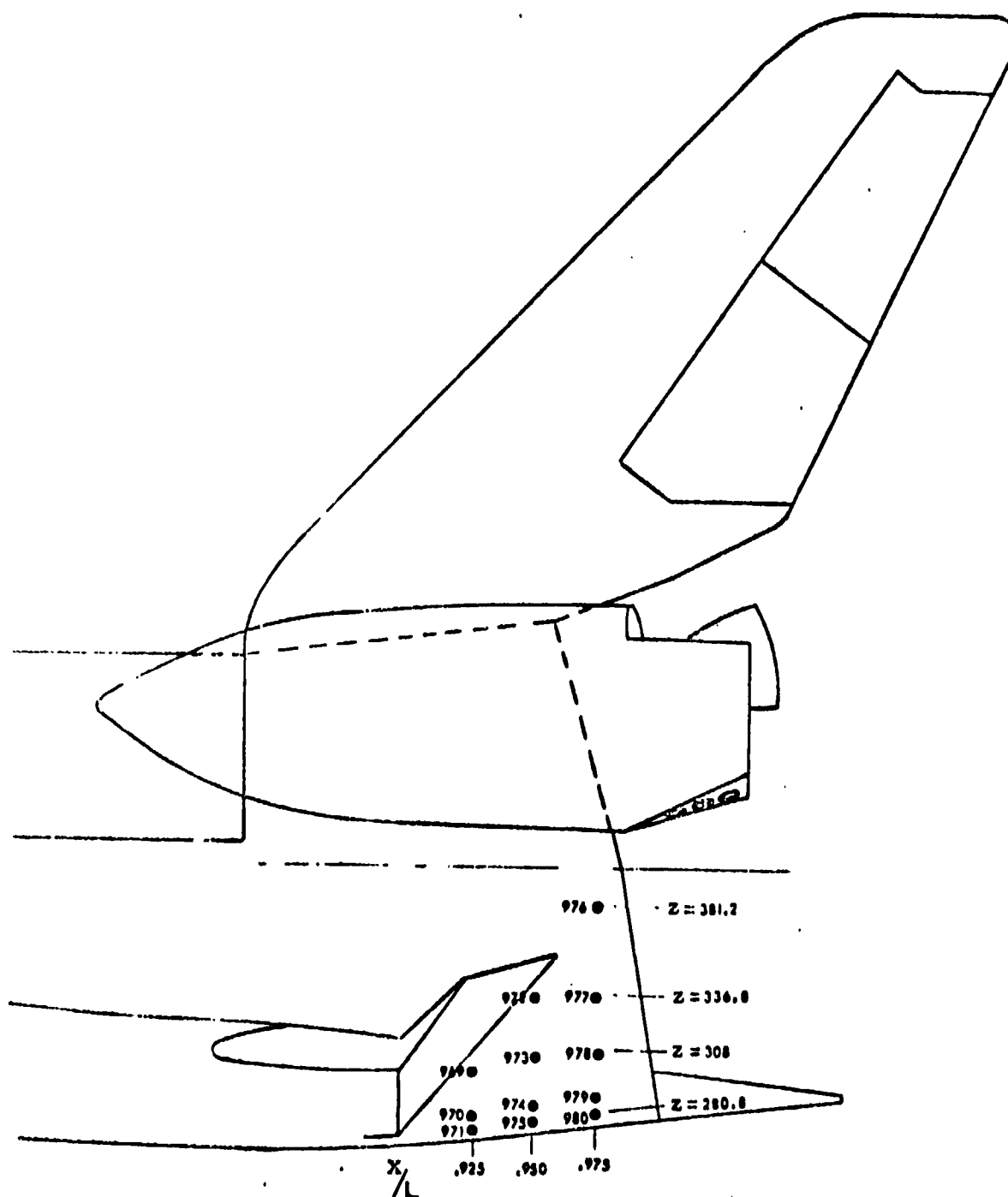
b. Thermocouple Locations - Upper Wing Surface and Fuselage  
Figure 2. Continued.



c. Thermocouple Locations - Lower Wing Surface and Fuselage  
Figure 2. Continued.



d. Thermocouple Locations - Vertical Tail and OMS Pod  
Figure 2. Continued.



e. Thermocouple Locations - Orbiter Aft Fuselage  
Figure 2. Continued.



a. Orbiter Mounted Inverted in Test Section  
Figure 3. Model photographs.





b. Orbiter in Injection Chamber Prior to Insertion into Test Section  
Figure 3. Continued.

APPENDIX  
TABULATED SOURCE DATA

Data are available on request from Data Management Services.

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AEDC VKF V418-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V418-57A) ORBITER FUSELAGE

(RV18011)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAH DEG.	PHI MODEL DEG.	PSIA PU	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
166	7.900	.5480	20.01	.0000	180.0	109.3	.1200-01	1251.	92.80	.5310	3729.	.1098-04
167	7.900	.5523	20.02	.0000	180.0	110.3	.1200-01	1252.	92.90	.5350	3731.	.1107-04
168	7.900	.5422	20.03	.0000	180.0	108.6	.1200-01	1255.	93.10	.5270	3734.	.1088-04

RUN NUMBER	MU	HREF	BTU/ R F12SEC	ST FR R -
166	.7472-07	.1777-01	.5480-01	0.0175
167	.7478-07	.1785-01	.5458-01	
168	.7493-07	.1772-01	.5507-01	

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(190) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(140) BTU/ R F12SEC	QDOT BTU/ R F12SEC	DTMDT DEG. R /SEC	TM DEG. R
166	.00000	.00000	1.0000	.9118	.7423	.7600	.1620-01	.1320-01	.1351-01	8.909	48.82	576.2
165	.00000	.50000-02	2.0000	.7485	.6090	.6230	.1330-01	.1082-01	.1108-01	7.268	49.71	579.6
166	.00000	.10000-01	3.0000	.5506	.4498	.4800	.9784-02	.7993-02	.8531-02	5.464	36.45	567.6
166	.00000	.20000-01	4.0000	.3331	.2735	.3061	.5920-02	.4860-02	.5440-02	3.397	18.85	552.2
166	.00000	.30000-01	5.0000	.2358	.1937	.2210	.4190-02	.3442-02	.3941-02	2.415	13.41	549.7
166	.00000	.40000-01	6.0000	.1818	.1495	.1730	.3231-02	.2657-02	.3085-02	1.870	10.40	547.2
166	.00000	.50000-01	7.0000	.1731	.1422	.1670	.3075-02	.2526-02	.2967-02	1.770	11.91	550.5
166	.00000	.60000-01	8.0000	.1632	.1341	.1587	.2901-02	.2384-02	.2821-02	1.674	10.63	548.8
166	.00000	.70000-01	9.0000	.1388	.1140	.1360	.2466-02	.2027-02	.2416-02	1.423	9.883	549.0
166	.00000	.80000-01	10.000	.1142	.9390-01	.1120	.2030-02	.1669-02	.2001-02	1.174	8.155	547.9
166	.00000	.90000-01	11.000	.9870-01	.8120-01	.9760-01	.1753-02	.1442-02	.1735-02	1.017	6.467	546.0
166	.00000	.10000+00	12.000	.8450-01	.6950-01	.8390-01	.1501-02	.1235-02	.1491-02	.8720	5.246	545.3
166	.00000	.12000	14.000	.9410-01	.7750-01	.9400-01	.1673-02	.1377-02	.1671-02	.9750	5.433	543.2
166	.00000	.13000	15.000	.7190-01	.5920-01	.7200-01	.1278-02	.1052-02	.1275-02	.7430	4.358	544.4
166	.00000	.14000	16.000	.6610-01	.5440-01	.6620-01	.1174-02	.9662-03	.1176-02	.6830	4.346	544.3
166	.00000	.16000	18.000	.6290-01	.5170-01	.6310-01	.1117-02	.9194-03	.1122-02	.6500	4.019	544.6
166	.00000	.17000	19.000	.6430-01	.5290-01	.6460-01	.1142-02	.9400-03	.1148-02	.5640	4.223	545.0

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V418-57A (OH-498) COLLATION DECK

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(RV1801)

OH-498 (AEDC V418-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(9TO) BTU/ R FT2SEC	H(10L) BTU/ R FT2SEC	H(11AM) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DTADT DEG. R /SEC	TH DEG. R
166	.00000	.18000	20.000	.6180-01	.5090-01	.6220-01	.1099-02	.9044-03	.1106-02	.6390	4.084	544.9
166	.00000	.19000	21.000	.6150-01	.5060-01	.6190-01	.1092-02	.8993-03	.1100-02	.6360	4.052	543.5
166	.00000	.20000	22.000	.5880-01	.4840-01	.5930-01	.1045-02	.8589-03	.1054-02	.6070	3.861	545.4
166	.00000	.23.000	23.000	.5430-01	.4470-01	.5490-01	.9649-03	.7939-03	.9757-03	.5600	3.563	545.5
166	.00000	.25000	801.00	.5310-01	.4370-01	.5380-01	.9434-03	.7761-03	.9555-03	.5480	3.483	545.5
166	.00000	.30000	802.00	.4750-01	.3910-01	.4820-01	.8449-03	.6950-03	.8557-03	.4900	3.117	545.9
166	.00000	.35000	803.00	.4970-01	.4090-01	.4831-03	.8831-03	.6950-03	.8945-03	.5110	3.248	547.3
166	.00000	.40000	804.00	.4750-01	.3910-01	.4820-01	.8448-03	.6946-03	.8557-03	.4890	3.197	547.5
166	.00000	.45000	805.00	.4240-01	.3480-01	.4290-01	.7534-03	.6192-03	.7632-03	.4350	2.929	548.8
166	.00000	.50000	806.00	.4000-01	.3290-01	.4050-01	.7111-03	.5843-03	.7203-03	.4100	2.847	549.5
166	.00000	.55000	807.00	.3890-01	.3190-01	.3940-01	.6908-03	.5574-03	.6997-03	.3980	2.944	550.4
166	.00000	.60000	808.00	.3510-01	.2680-01	.3550-01	.6230-03	.5117-03	.6310-03	.3590	2.654	550.5
166	.00000	.65000	809.00	.3210-01	.2640-01	.3250-01	.5705-03	.4685-03	.5779-03	.3280	2.426	551.2
166	.00000	.70000	810.00	.3150-01	.2590-01	.3190-01	.5594-03	.4594-03	.5666-03	.3220	2.462	551.0
166	.00000	.75000	811.00	.3080-01	.2530-01	.3120-01	.5470-03	.4493-03	.5541-03	.3150	2.329	550.7
166	.00000	.80000	812.00	.3020-01	.2480-01	.2980-01	.5367-03	.4409-03	.5436-03	.3090	2.290	549.8
166	.00000	.85000	813.00	.2910-01	.2390-01	.2880-01	.5172-03	.4251-03	.5293-03	.2990	2.288	548.9
166	.00000	.90000	814.00	.2660-01	.2190-01	.2730-01	.4732-03	.3890-03	.4852-03	.2740	1.963	547.7
166	.00000	.92500	815.00	.2190-01	.1890-01	.2250-01	.3884-03	.3195-03	.3992-03	.2250	1.855	546.7
166	.00000	.95000	816.00	.1920-01	.1600-01	.1970-01	.3405-03	.2801-03	.3508-03	.1970	1.627	546.2
166	.00000	.97500	817.00	.1780-01	.1460-01	.1830-01	.3157-03	.2597-03	.3260-03	.1830	1.508	546.4
166	.00000	1.01500	818.00	.9500-02	.7800-02	.9900-02	.1695-03	.1395-03	.1754-03	.9900-01	.7330	543.9
166	.00000	1.03000	819.00	.1070-01	.8800-02	.1110-01	.1905-03	.1568-03	.1971-03	.1110	.8240	543.5
166	.00000	1.04500	820.00	.1110-01	.9200-02	.1150-01	.1978-03	.1628-03	.2047-03	.1150	.9170	542.4
166	.00000	1.06000	821.00	.1240-01	.1020-01	.1280-01	.2200-03	.1812-03	.2277-03	.1280	1.081	542.2
166	.00000	1.50000	89.000	.1990-01	.1640-01	.1590-01	.3529-03	.2908-03	.3529-03	.2070	1.247	540.2
166	.00000	2.00000	91.000	.3130-01	.2580-01	.3130-01	.5555-03	.4578-03	.5556-03	.3250	2.016	540.7
166	.00000	5.00000-01	90.000	.1900-01	.1560-01	.1900-01	.3373-03	.2780-03	.3373-03	.1980	1.195	539.0
166	.00000	4.00000	823.00	.4980-01	.4090-01	.5040-01	.8844-03	.7267-03	.8958-03	.5100	4.046	549.5
166	.00000	5.00000	824.00	.4690-01	.3850-01	.4750-01	.8335-03	.6845-03	.8444-03	.4790	3.794	551.8
166	.00000	6.00000	825.00	.3210-01	.2630-01	.3250-01	.5702-03	.4682-03	.5776-03	.3280	2.908	551.6
166	.00000	7.00000	826.00	.3530-01	.2900-01	.3580-01	.6272-03	.5150-03	.6354-03	.3600	2.664	551.9
166	.00000	8.00000	827.00	.3500-01	.2880-01	.3550-01	.6223-03	.5113-03	.6303-03	.3590	2.655	549.8
166	.00000	9.00000	828.00	.2610-01	.2140-01	.2670-01	.4630-03	.3807-03	.4747-03	.2680	2.129	547.3
167	20.000	10.000+00	103.00	.1465	.1207	.1465	.2616-02	.2155-02	.2616-02	1.533	9.004	540.8
167	20.000	15.000	104.00	.6330-01	.6870-01	.8330	.1487-02	.1226-02	.1487-02	.8740	5.580	539.1
166	20.000	92.500	971.00	.1450-01	.1190-01	.1450	.2578-03	.2122-03	.2578-03	.1500	1.113	544.6
166	20.000	95.000	975.00	.2820-01	.2320-01	.2820-01	.5020-03	.4129-03	.5020-03	.2910	2.159	546.3
166	20.000	97.500	980.00	.2760-01	.2270-01	.2760-01	.4905-03	.4036-03	.4905-03	.2850	2.114	545.3
167	22.000	50.000-01	105.00	.2192	.1805	.2192	.3914-02	.3223-02	.3914-02	2.289	12.76	542.1
166	24.000	20.000	93.000	.3020-01	.2480-01	.3020-01	.5360-03	.4416-03	.5360-03	.3140	1.943	541.2
167	24.500	10.000+00	106.00	.1625	.1338	.1625	.2901-02	.2389-02	.2901-02	1.697	10.81	542.2
167	25.500	15.000	107.00	.1001	.8240-01	.1001	.1787-02	.1472-02	.1787-02	1.046	9.335	541.5

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AEDC VKF V41B-57A (04-498) COLLATION DECK

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(RV1801)

04-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(970) BTU/ R FT2SEC	H(101) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
166	30.000	.92500	970 JG	.8500-02	.7000-02	.8500-02	.1519-03	.1251-03	.1519-03	.8900-01	.6580	543.2
166	30.000	.95000	974.00	.1510-01	.1240-01	.1510-01	.2678-03	.2205-03	.2678-03	.1560	1.159	543.5
166	30.000	.97500	973.00	.2590-01	.2140-01	.2590-01	.4609-03	.3799-03	.4609-03	.2700	2.013	539.3
167	31.500	.20000	108.00	.6490-01	.5350-01	.6490-01	.1159-02	.9549-03	.1159-02	.6790	6.883	541.5
166	32.000	.40000	831.00	.7080-01	.5820-01	.7170-01	.1259-02	.1034-02	.1275-02	.7250	5.035	549.8
166	32.000	.50000	832.00	.5410-01	.4440-01	.5480-01	.9607-03	.7887-03	.9732-03	.5510	3.945	552.3
166	32.000	.60000	833.00	.5130-01	.4210-01	.5200-01	.9118-03	.7484-03	.9236-03	.5230	3.512	552.9
166	32.000	.70000	834.00	.1680-01	.1380-01	.1710-01	.2992-03	.2455-03	.3031-03	.1710	1.310	553.4
166	32.000	.80000	835.00	.3310-01	.2720-01	.3350-01	.5875-03	.4827-03	.5951-03	.3380	2.425	550.0
165	32.000	.90000	836.00	.2710-01	.2230-01	.2780-01	.4811-03	.3956-03	.4933-03	.2780	2.064	547.3
166	32.000	.95000	837.00	.2980-01	.2450-01	.3070-01	.5300-03	.4359-03	.5460-03	.3070	2.357	546.5
166	32.000	.97500	838.00	.2060-01	.1700-01	.2130-01	.3661-03	.3013-03	.3779-03	.2130	1.694	544.2
166	32.000	1.0150	839.00	.1700-01	.1400-01	.1700-01	.3029-03	.2494-03	.3022-03	.1760	1.430	543.4
166	32.000	1.0450	840.00	.1790-01	.1400-01	.1780-01	.3024-03	.2490-03	.3170-03	.1650	1.448	543.2
166	32.000	1.0600	841.00	.1700-01	.1400-01	.1700-01	.2615-03	.2154-03	.2611-03	.1760	1.356	542.9
166	32.000	1.0600	842.00	.1470-01	.1210-01	.1470-01	.2616-03	.2154-03	.2611-03	.1530	1.260	542.9
167	35.000	.50000-01	115.00	.1493	.1230	.1493	.2665-02	.2196-02	.2665-02	.1563	9.564	540.7
167	35.000	.20030	116.00	.7040-01	.5800-01	.7040-01	.1036-02	.1258-02	.1258-02	.7340	7.434	543.5
167	35.000	.10000+00	117.00	.1120	.9230-01	.1120	.1999-02	.1648-02	.1999-02	1.174	7.492	539.6
167	40.000	.76000-01	121.00	.8430-01	.6950-01	.8430-01	.1504-02	.1241-02	.1504-02	.8880	5.671	536.9
167	40.000	.15000	111.00	.1366	.1124	.1366	.2439-02	.2007-02	.2439-02	1.422	10.56	544.1
167	40.000	.20000	112.00	.7530-01	.6200-01	.7530-01	.1344-02	.1107-02	.1344-02	.7840	8.735	543.8
167	42.500	.50000-01	127.00	.1113	.9180-01	.1113	.1988-02	.1639-02	.1988-02	1.169	7.916	538.7
167	45.000	.15000	117.00	.8980-01	.7400-01	.8980-01	.1603-02	.1322-02	.1603-02	.9440	5.548	538.5
166	45.000	.92500	969.00	.9000-03	.7000-03	.9000-03	.1564-04	.1288-04	.1564-04	.9000-02	.6800-01	541.3
166	45.000	.95000	973.00	.1000-03	.1000-03	.1000-03	.2082-05	.1715-05	.2082-05	.1000-02	.9000-02	540.8
66	45.000	.97500	578.00	.4000-03	.4000-03	.4000-03	.7600-05	.6262-05	.7600-05	.4000-02	.3300-01	540.5
67	51.000	.20000	118.00	.4980-01	.4110-01	.4980-01	.8888-03	.7330-03	.8888-03	.5240	3.344	537.8
167	60.000	.50000-01	131.00	.6580-01	.5430-01	.6580-01	.1175-02	.9634-03	.1175-02	.6950	4.708	535.8
167	67.500	.20000	128.00	.2970-01	.2450-01	.2970-01	.5311-03	.4382-03	.5311-03	.3140	2.338	536.5
166	75.000	.97500	977.00	.6000-03	.5000-03	.6000-03	.1051-04	.8983-05	.1090-04	.6000-02	.4700-01	540.5
166	85.000	.97500	976.00	.3800-02	.3100-02	.3800-02	.6717-04	.5534-04	.6717-04	.2930	.2930	540.6
167	105.00	.40100	135.00	.1130-01	.9300-02	.1130-01	.2017-03	.1663-03	.2017-03	.1190	.9170	539.4
167	105.00	.50100	136.00	.2250-01	.1850-01	.2250-01	.4015-03	.3307-03	.4015-03	.2350	1.871	542.1
167	105.00	.60100	137.00	.3440-01	.2830-01	.3440-01	.6136-03	.5052-03	.6136-03	.3580	2.849	543.5
167	105.00	.70100	138.00	.2360-01	.1940-01	.2360-01	.4205-03	.3465-03	.4205-03	.2470	1.965	540.8
167	105.00	.80000	139.00	.9100-02	.7500-02	.9100-02	.1621-03	.1337-03	.1621-03	.9600-01	.7640	537.3
167	113.00	.60100	146.00	.2500-01	.2060-01	.2500-01	.4457-03	.3672-03	.4457-03	.2610	2.080	541.4
167	116.00	.60100	147.00	.2690-01	.2210-01	.2690-01	.4757-03	.3951-03	.4757-03	.2810	2.235	542.0
167	116.00	.75100	148.00	.3110-01	.2570-01	.3110-01	.5559-03	.4583-03	.5559-03	.3270	2.609	538.9
167	120.00	.10000+00	132.00	.2300-01	.1900-01	.2300-01	.4107-03	.3391-03	.4107-03	.2440	1.474	534.0
167	120.00	.80500	247.00	.1089	.8970-01	.1089	.1944-02	.1602-02	.1944-02	1.139	9.372	541.0
167	120.00	.82900	248.00	.8660-01	.7140-01	.8660-01	.1546-02	.1274-02	.1546-02	.9080	7.472	540.0

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGEPAGE 4  
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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TM DEG. R
167	120.00	.86200	249.00	.7210-01	.5950-01	.7210-01	.1288-02	.1062-02	.1288-02	.7590	5.538	538.0
167	130.00	.80500	253.00	.9370-01	.7720-01	.9370-01	.1673-02	.1379-02	.1673-02	.9820	7.835	539.9
167	130.00	.82900	254.00	.7030-01	.5800-01	.7030-01	.1255-02	.1035-02	.1255-02	.7400	5.735	537.1
167	130.00	.86200	255.00	.3330-01	.2750-01	.3330-01	.5945-03	.4908-03	.5945-03	.3520	2.909	534.6
167	135.00	.40100	142.00	.2300-02	.1900-02	.2300-02	.4029-04	.3323-04	.4029-04	.2400-01	.1840	537.0
167	135.00	.50100	143.00	.1200-02	.1000-02	.1200-02	.2126-04	.1753-04	.2126-04	.1300-01	.1030	538.0
167	135.00	.60100	144.00	.4100-02	.3400-02	.4100-02	.7329-04	.6043-04	.7329-04	.3340	.3340	538.2
167	135.00	.70100	145.00	.3800-02	.3100-02	.3800-02	.6799-04	.5610-04	.6799-04	.4000-01	.3210	536.5
167	140.00	.18000	85.000	.1490-01	.1230-01	.1490-01	.2665-03	.2199-03	.2665-03	.1570	1.215	536.0
167	140.00	.19500	87.000	.1550-01	.1280-01	.1550-01	.2776-03	.2290-03	.2776-03	.1640	1.266	535.8
167	145.00	.80500	259.00	.4950-01	.4090-01	.4950-01	.2844-03	.2300-03	.2844-03	.5230	4.060	535.1
168	145.00	.82900	260.00	.7000-02	.5800-02	.7000-02	.1236-03	.1021-03	.1236-03	.7400-01	.5540	534.4
168	145.00	.86200	261.00	.8300-02	.6800-02	.8300-02	.1468-03	.1213-03	.1468-03	.8800-01	.7240	532.8
167	150.00	.16000	86.000	.1450-01	.1200-01	.1450-01	.2597-03	.2144-03	.2597-03	.1540	1.147	535.0
167	150.00	.18000	84.000	.3000-01	.2470-01	.3000-01	.5350-03	.4415-03	.5350-03	.3160	2.357	536.1
167	150.00	.19000	82.000	.9000-03	.7000-03	.9000-03	.1612-04	.1331-04	.1612-04	.1000-01	.7100-01	534.4
167	155.00	.16000	80.000	.1420-01	.1180-01	.1420-01	.2543-03	.2099-03	.2543-03	.1510	1.123	535.0
167	155.00	.16300	83.000	.4000-03	.4000-03	.4000-03	.7759-05	.6406-05	.7759-05	.5000-02	3.464	534.3
167	160.00	.18000	77.000	.4140-01	.3410-01	.4140-01	.7390-03	.6092-03	.7390-03	.4340	.9190	539.4
167	160.00	.15000	81.000	.1210-01	.1000-01	.1210-01	.2153-03	.1777-03	.2153-03	.1270	2.343	535.6
167	175.00	.16500	79.000	.2980-01	.2460-01	.2980-01	.5325-03	.4393-03	.5325-03	.3140	2.343	535.7
167	175.00	.17500	78.000	.4570-01	.3770-01	.4570-01	.8162-03	.6730-03	.8162-03	.4800	3.462	538.5
166	180.00	.10000-01	59.000	.2894	.2374	.2894	.5142-02	.4218-02	.5142-02	2.938	21.70	554.7
166	180.00	.25000-01	60.000	.9510-01	.7830-01	.9510-01	.1690-02	.1391-02	.1690-02	.9820	7.052	545.2
166	180.00	.50000-01	61.000	.4660-01	.3840-01	.4660-01	.8280-03	.6820-03	.8280-03	.4840	3.084	541.7
166	180.00	.75000-01	62.000	.2520-01	.2080-01	.2520-01	.4480-03	.3691-03	.4480-03	.2620	1.672	540.7
166	180.00	.10000+00	63.000	.1590-01	.1310-01	.1590-01	.2827-03	.2330-03	.2827-03	.1660	1.088	540.0
166	180.00	.12500	64.000	.1160-01	.9500-02	.1160-01	.2057-03	.1695-03	.2057-03	.1210	.8410	540.1
166	180.00	.15000	65.000	.8000-02	.6600-02	.8000-02	.1422-03	.1172-03	.1422-03	.8300-01	.5820	539.6
166	180.00	.16000	66.000	.1670-01	.1370-01	.1670-01	.2966-03	.2443-03	.2966-03	.1740	.9680	540.7
166	180.00	.17000	67.000	.6350-01	.5230-01	.6350-01	.1128-02	.9285-03	.1128-02	.6570	3.663	543.1
166	180.00	.20000	69.000	.2120-01	.1750-01	.2120-01	.3772-03	.3108-03	.3772-03	.2210	1.369	540.5
166	180.00	.40100	72.000	.5400-02	.4500-02	.5400-02	.3668-04	.2967-04	.3668-04	.5700-01	.4820	539.8
166	180.00	.50000	73.000	.6900-02	.5700-02	.6900-02	.1229-03	.1013-03	.1229-03	.7200-01	.6120	540.8
166	180.00	.60100	74.000	.8300-02	.6800-02	.8300-02	.1470-03	.1211-03	.1470-03	.8600-01	.7080	540.7
166	180.00	.70100	75.000	.6900-02	.5700-02	.6900-02	.1230-03	.1014-03	.1230-03	.7200-01	.5750	540.0

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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(RV1801)

## FUSELAGE

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPDGRK = .0000  
BDFLAP = .0000 MACH = 8.0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
139	7.940	1.009	20.02	.0000	180.0	203.1	.2200-01	172.	93.50	.9923	3762.	.2018-04
140	7.940	1.028	20.03	.0000	180.0	211.6	.2300-01	1265.	93.10	1.004	3753.	.2051-04
141	7.940	1.027	20.03	.0000	180.0	211.1	.2300-01	1265.	92.90	1.002	3751.	.2049-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
139	.7526-07	.2437-01	0.0175
140	.7492-07	.2450-01	.4049-01
141	.7483-07	.2446-01	.4015-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11M) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TM DEG. R
139	.00000	.00000	1.0000	.9216	.7505	.7680	.2546-01	.1829-01	.1872-01	12.54	68.34	586.8
139	.00000	.50000-02	2.0000	.7375	.5996	.6336	.1797-01	.1461-01	.1495-01	9.942	67.58	591.8
139	.00000	.10000-01	3.0000	.5621	.4594	.4902	.1370-01	.1120-01	.1195-01	7.798	51.81	575.7
139	.00000	.20000-01	4.0000	.3293	.2710	.3029	.8025-02	.6605-02	.7382-02	4.748	26.33	553.2
139	.00000	.30000-01	5.0000	.2301	.1897	.2167	.5608-02	.4623-02	.5281-02	3.349	18.62	547.8
139	.00000	.40000-01	6.0000	.1821	.1502	.1740	.4437-02	.3560-02	.4240-02	2.658	14.79	546.0
139	.00000	.50000-01	7.0000	.1678	.1383	.1620	.4090-02	.3370-02	.3949-02	2.436	16.40	549.3
139	.00000	.60000-01	8.0000	.1633	.1346	.1589	.3980-02	.3280-02	.3872-02	2.374	15.08	548.5
139	.00000	.70000-01	9.0000	.1323	.1090	.1297	.3224-02	.2657-02	.3160-02	1.922	13.35	548.9
139	.00000	.80000-01	10.0000	.1053	.8680-01	.1038	.2566-02	.2116-02	.2530-02	1.536	10.68	546.3
139	.00000	.90000-01	11.0000	.9890-01	.8160-01	.9790-01	.2410-02	.1989-02	.2385-02	1.448	9.219	544.0
139	.00000	1.0000+00	12.0000	.8770-01	.7240-01	.8720-01	.2139-02	.1765-02	.2125-02	1.285	7.735	544.2
139	.00000	.12000	14.0000	.8670-01	.7320-01	.8650-01	.2161-02	.1785-02	.2158-02	1.305	7.283	540.8
139	.00000	.13000	15.0000	.7170-01	.5920-01	.7170-01	.1747-02	.1442-02	.1748-02	1.052	6.170	542.9
139	.00000	.14000	16.0000	.6390-01	.5280-01	.6400-01	.1558-02	.1286-02	.1561-02	.9380	5.976	542.8
139	.00000	.15000	18.0000	.6550-01	.5410-01	.6580-01	.1597-02	.1318-02	.1603-02	.9610	5.948	543.2
139	.00000	.17000	19.0000	.6300-01	.5200-01	.6330-01	.1535-02	.1267-02	.1543-02	.9230	5.873	543.9

AEDC VKF V41B-57A (OH-198) COLLATION DECK  
OH-198 (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTAOT DEG. R /SEC	TW DEG. R
139	.00000	.18000	20.000	.6170-01	.5090-01	.6210-01	.1504-02	.1241-02	.1513-02	.9040	5.755	543.9
139	.00000	.19000	21.000	.6050-01	.4990-01	.6090-01	.1474-02	.1217-02	.1485-02	.8870	5.650	543.2
139	.00000	.20000	22.000	.5880-01	.4860-01	.5930-01	.1434-02	.1183-02	.1446-02	.8620	5.484	544.1
139	.00000	.22500	23.000	.5370-01	.4430-01	.5420-01	.1308-02	.1079-02	.1322-02	.7860	5.002	544.1
139	.00000	.25000	801.00	.5170-01	.4270-01	.5240-01	.1260-02	.1040-02	.1276-02	.7570	4.818	544.3
139	.00000	.30000	802.00	.4560-01	.3770-01	.4620-01	.1113-02	.9179-03	.1127-02	.6670	4.216	545.1
139	.00000	.35000	803.00	.4730-01	.3900-01	.4780-01	.1152-02	.9497-03	.1166-02	.6890	4.379	546.8
139	.00000	.40000	804.00	.4620-01	.3810-01	.4680-01	.1127-02	.9293-03	.1141-02	.6740	4.408	547.1
139	.00000	.45000	805.00	.3980-01	.3280-01	.4030-01	.9701-03	.7995-03	.9823-03	.5780	3.896	548.7
139	.00000	.50000	806.00	.3870-01	.3190-01	.3920-01	.9428-03	.7768-03	.9548-03	.5610	3.895	549.8
139	.00000	.55000	807.00	.3610-01	.2970-01	.3650-01	.8791-03	.7240-03	.8903-03	.5220	3.861	551.3
139	.00000	.60000	808.00	.3240-01	.2670-01	.3280-01	.7891-03	.6499-03	.7992-03	.4680	3.466	551.3
139	.00000	.65000	809.00	.2310-01	.2400-01	.2950-01	.7091-03	.5838-03	.7181-03	.4200	3.108	552.3
139	.00000	.70000	810.00	.2740-01	.2260-01	.2730-01	.6685-03	.5504-03	.6770-03	.3960	3.032	552.1
139	.00000	.75000	811.00	.2860-01	.2360-01	.2900-01	.6979-03	.5746-03	.7068-03	.4140	3.061	552.0
139	.00000	.80000	812.00	.2950-01	.2430-01	.2930-01	.7188-03	.5920-03	.7280-03	.4270	3.159	551.1
139	.00000	.85000	813.00	.2970-01	.2440-01	.3030-01	.7229-03	.5955-03	.7396-03	.4300	3.292	550.3
139	.00000	.90000	814.00	.2510-01	.2070-01	.2570-01	.6114-03	.5030-03	.6266-03	.3650	2.617	548.1
139	.00000	.92500	815.00	.2040-01	.1680-01	.2030-01	.4969-03	.4098-03	.5105-03	.2970	2.450	546.7
139	.00000	.95000	816.00	.1870-01	.1540-01	.1920-01	.4552-03	.3755-03	.4687-03	.2730	2.247	546.6
139	.00000	.97500	817.00	.1660-01	.1370-01	.1710-01	.4041-03	.3332-03	.4170-03	.2420	1.992	542.1
139	.00000	1.0150	818.00	.9100-02	.7500-02	.9430-02	.2214-03	.1828-03	.2290-03	.1330	.9920	540.9
139	.00000	1.0300	819.00	.1310-01	.8400-02	.1050-01	.2471-03	.2041-03	.2556-03	.1490	1.110	540.8
139	.00000	1.0450	820.00	.9900-02	.8200-02	.1020-01	.2406-03	.1988-03	.2489-03	.1450	1.159	539.7
139	.00000	1.0600	821.00	.9500-02	.7900-02	.9830-02	.2315-03	.1913-03	.2395-03	.1400	1.181	537.4
139	.00000	89.000	89.000	.1810-01	.1490-01	.1810-01	.4401-03	.3639-03	.4401-03	.2670	1.615	539.7
139	.00000	91.000	91.000	.3470-01	.2870-01	.3470-01	.8459-03	.6990-03	.8459-03	.5120	3.175	539.7
139	.00000	90.000	90.000	.1160-01	.9600-02	.1150-01	.2824-03	.2336-03	.2824-03	.1720	1.039	536.2
139	.00000	823.00	823.00	.5050-01	.4160-01	.5110-01	.1231-02	.1014-02	.1246-02	.7320	5.808	549.9
139	.00000	824.00	824.00	.4570-01	.3760-01	.4630-01	.1114-02	.9174-03	.1129-02	.6600	5.233	552.3
139	.00000	825.00	825.00	.3010-01	.2480-01	.3050-01	.7341-03	.6043-03	.7350-03	.4350	3.857	553.4
139	.00000	826.00	826.00	.3550-01	.2930-01	.3600-01	.8663-03	.7130-03	.8774-03	.5120	3.788	551.3
139	.00000	827.00	827.00	.3360-01	.2760-01	.3400-01	.8183-03	.6739-03	.8287-03	.4860	3.594	548.1
139	.00000	828.00	828.00	.2520-01	.2080-01	.2590-01	.6147-03	.5067-03	.6301-03	.3670	2.913	548.3
140	.00000	103.00	103.00	.1454	.1198	.1454	.3562-02	.2934-02	.3562-02	2.107	12.33	545.1
140	.00000	104.00	104.00	.8230-01	.6780-01	.8230-01	.2015-02	.1662-02	.2015-02	1.199	7.625	545.1
139	.00000	971.00	971.00	.2450-01	.2020-01	.2450-01	.5961-03	.4916-03	.5610-03	.3570	2.645	546.7
139	.00000	975.00	975.00	.3630-01	.2990-01	.3630-01	.8847-03	.7292-03	.8847-03	.5260	3.914	548.0
139	.00000	980.00	980.00	.3910-01	.3220-01	.3910-01	.9525-03	.7857-03	.9525-03	.5710	4.232	546.0
140	.00000	105.00	105.00	.2207	.1917	.2207	.5407-02	.4452-02	.5407-02	3.193	17.74	549.2
139	.00000	93.000	93.000	.3480-01	.2880-01	.3480-01	.8481-03	.7007-03	.8481-03	.5130	3.182	539.9
140	.00000	107.00	107.00	.1624	.1337	.1624	.3979-02	.3275-02	.3979-02	2.345	14.89	550.5
140	.00000	107.00	107.00	.9990-01	.8220-01	.9990-01	.2447-02	.2015-02	.2447-02	1.446	12.85	549.9



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1801)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
139	30.000	.92500	970.00	.1470-01	.1210-01	.1470-01	.3571-03	.2947-03	.3571-03	.2150	1.595	543.7
139	30.000	.95000	974.00	.2240-01	.1850-01	.2240-01	.5464-03	.4510-03	.5464-03	.3290	2.442	543.2
139	30.000	.97500	979.00	.1130-01	.9300-02	.1130-01	.2745-03	.2270-03	.2745-03	.1670	1.243	537.3
140	31.500	.20000	108.00	.6490-01	.5350-01	.6490-01	.1590-02	.1310-02	.1590-02	.9430	9.540	546.4
139	32.000	.40000	831.00	.7210-01	.5940-01	.7300-01	.1757-02	.1447-02	.1757-02	1.045	7.251	550.3
139	32.000	.50000	832.00	.6030-01	.4960-01	.6110-01	.1470-02	.1210-02	.1489-02	.8700	6.222	553.2
139	32.000	.60000	833.00	.5270-01	.4340-01	.5340-01	.1285-02	.1057-02	.1301-02	.7590	5.099	554.0
139	32.000	.70000	834.00	.3240-01	.2670-01	.3260-01	.7901-03	.6499-03	.8002-03	.4660	3.559	555.3
139	32.000	.80000	835.00	.3350-01	.2760-01	.3350-01	.8159-03	.6719-03	.8263-03	.4840	3.469	551.1
139	32.000	.90000	836.00	.2680-01	.2210-01	.2750-01	.6536-03	.5388-03	.6559-03	.3900	2.894	547.7
139	32.000	.95000	837.00	.2990-01	.2470-01	.3080-01	.7296-03	.6017-03	.7513-03	.4370	3.349	546.6
139	32.000	.97500	838.00	.2300-01	.1900-01	.2370-01	.5610-03	.4630-03	.5788-03	.3370	2.683	543.9
139	32.000	1.0150	839.00	.1540-01	.1270-01	.1540-01	.3763-03	.3107-03	.3755-03	.2270	1.841	541.6
139	32.000	1.0300	840.00	.1700-01	.1400-01	.1700-01	.4143-03	.3422-03	.4134-03	.2500	1.958	541.2
139	32.000	1.0450	841.00	.1680-01	.1390-01	.1580-01	.4091-03	.3379-03	.4083-03	.2470	1.901	541.1
139	32.000	1.0600	842.00	.1470-01	.1220-01	.1470-01	.3585-03	.2962-03	.3578-03	.2170	1.790	540.8
140	35.000	.50000-01	115.00	.1503	.1238	.1503	.3682-02	.3033-02	.3682-02	2.176	13.82	548.8
140	35.000	.20000	110.00	.7270-01	.5990-01	.7270-01	.1781-02	.1467-02	.1781-02	1.054	10.64	548.4
140	39.000	1.0000-00	116.00	.1070	.8820-01	.1370	.2623-02	.2161-02	.2623-02	1.557	9.898	546.2
140	40.000	.76000-01	121.00	.8210-01	.6770-01	.8210-01	.2012-02	.1659-02	.2012-02	1.199	7.635	543.8
140	40.000	.15000	111.00	.1396	.1148	.1396	.3419-02	.2812-02	.3419-02	2.005	14.82	553.5
140	40.000	.20000	112.00	.7670-01	.6310-01	.7670-01	.1879-02	.1547-02	.1879-02	1.107	12.29	550.8
140	42.500	.50000-01	127.00	.1132	.9330-01	.1132	.2773-02	.2285-02	.2773-02	1.645	11.10	546.4
140	45.000	.15000	117.00	.8760-01	.7220-01	.8760-01	.2145-02	.1769-02	.2145-02	1.277	7.482	544.7
139	45.000	.92500	969.00	.3000-03	.2000-03	.3000-03	.6915-05	.5716-05	.6915-05	.4000-02	.3100-01	538.7
139	45.000	.95000	973.00	.2000-03	.2000-03	.2000-03	.4480-05	.3702-05	.4480-05	.3000-02	.2000-01	539.3
139	45.000	.97500	978.00	.5000-03	.4000-03	.5000-03	.1279-04	.1057-04	.1279-04	.8000-02	.5800-01	539.0
140	51.000	.20000	118.00	.4920-01	.4050-01	.4320-01	.1205-02	.9941-03	.1205-02	.7200	4.589	542.0
140	60.000	.50000-01	131.00	.6300-01	.5200-01	.6300-01	.1543-02	.1273-02	.1543-02	.9220	6.233	542.1
140	67.500	.20000	128.00	.2840-01	.2350-01	.2840-01	.6968-03	.5751-03	.6968-03	.4170	3.101	541.3
139	75.000	.97500	977.00	.6000-03	.5000-03	.6000-03	.1582-04	.1307-04	.1582-04	.1000-01	.7100-01	539.1
139	85.000	.97500	976.00	.4600-02	.3800-02	.4600-02	.1117-03	.9229-04	.1117-03	.6800-01	.5030	539.6
140	105.00	.40100	135.00	.1110-01	.9200-02	.1110-01	.2717-03	.2242-03	.2717-03	.1630	1.256	541.3
140	105.00	.50100	136.00	.2170-01	.1790-01	.2170-01	.5326-03	.4393-03	.5326-03	.3180	2.527	543.6
140	105.00	.60100	137.00	.3660-01	.3010-01	.3660-01	.8959-03	.7384-03	.8959-03	.5320	4.229	545.8
140	105.00	.70100	138.00	.3690-01	.3030-01	.3690-01	.9007-03	.7425-03	.9007-03	.5360	4.257	545.3
140	105.00	.80000	139.00	.1230-01	.1020-01	.1230-01	.3024-03	.2497-03	.3024-03	.1810	1.445	540.5
140	113.00	.60100	146.00	.2380-01	.1960-01	.2380-01	.5830-03	.4809-03	.5830-03	.3480	2.766	543.6
140	116.00	.60100	147.00	.2490-01	.2050-01	.2490-01	.6104-03	.5033-03	.6104-03	.3630	2.890	544.4
140	116.00	.75100	148.00	.4300-01	.3540-01	.4300-01	.1053-02	.8679-03	.1053-02	.6250	4.970	545.9
140	120.00	1.0000-00	132.00	.2190-01	.1810-01	.2190-01	.5358-03	.4425-03	.5358-03	.3220	1.943	539.1
140	120.00	.80500	277.00	.1380	.1135	.1380	.3382-02	.2781-02	.3382-02	1.985	16.21	552.9
140	120.00	.82900	248.00	.9240-01	.7610-01	.9240-01	.2264-02	.1865-02	.2264-02	1.342	11.00	547.1

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OH-49B (AEDC V4IB-57A) ORBITER FUSELAGE

(RV1801)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
140	120.00	.86200	249.00	.7140-01	.5890-01	.7140-01	.1750-02	.1444-02	.1750-02	1.044	7.594	543.5
140	130.00	.80500	253.00	.1048	.8630-01	.1048	.2567-02	.2114-02	.2567-02	1.519	12.05	548.1
140	130.00	.82900	254.00	.6310-01	.5210-01	.6310-01	.1546-02	.1275-02	.1546-02	.9220	7.120	543.2
140	130.00	.86200	255.00	.2960-01	.2440-01	.2960-01	.1747-03	.1598-03	.1747-03	.4350	3.587	538.9
140	135.00	.40100	142.00	.1500-02	.1200-02	.1500-02	.3687-04	.3045-04	.3687-04	.2200-01	.1720	538.7
140	135.00	.50100	143.00	.1500-02	.1600-02	.2000-02	.4808-04	.3970-04	.4808-04	.2900-01	.2380	539.4
140	135.00	.60100	144.00	.3000-02	.2500-02	.3100-02	.7549-04	.6234-04	.7549-04	.4500-01	.3510	539.3
140	135.00	.70100	145.00	.3200-02	.2700-02	.3200-02	.7888-04	.6514-04	.7888-04	.4700-01	.3780	539.3
140	140.00	.18000	85.000	.2130-01	.1760-01	.2130-01	.5216-03	.4310-03	.5216-03	.3140	2.423	537.2
140	140.00	.19500	87.000	.1560-01	.1290-01	.1560-01	.3813-03	.3149-03	.3813-03	.2290	1.763	539.5
140	145.00	.80500	259.00	.5510-01	.4540-01	.5510-01	.1349-02	.1113-02	.1349-02	.8060	6.225	542.2
141	145.00	.82900	260.00	.2150-01	.1770-01	.2150-01	.5254-03	.4338-03	.5254-03	.3150	2.363	539.4
141	145.00	.86200	261.00	.6400-02	.5300-02	.6400-02	.1563-03	.1252-03	.1563-03	.9400-01	.7770	535.9
140	150.00	.16000	86.000	.1450-01	.1150-01	.1450-01	.4308-03	.3557-03	.4308-03	.2590	1.925	539.3
140	150.00	.18000	84.000	.1450-01	.1150-01	.1450-01	.7896-03	.6517-03	.7896-03	.4730	3.516	541.1
140	150.00	.19000	82.000	.4000-03	.3000-03	.4000-03	.9596-05	.7934-05	.9596-05	.6000-02	.4300-01	535.2
140	155.00	.16000	80.000	.1570-01	.1290-01	.1570-01	.3835-03	.3167-03	.3835-03	.2300	1.715	539.3
140	155.00	.18000	83.000	.2000-03	.1000-03	.2000-03	.4137-05	.3420-05	.4137-05	.3000-02	.1900-01	535.0
140	160.00	.18000	77.000	.5020-01	.4140-01	.5020-01	.1230-02	.1014-02	.1230-02	.7330	5.835	543.6
140	175.00	.15000	81.000	.1280-01	.1060-01	.1280-01	.3132-03	.2586-03	.3132-03	.1880	1.355	539.1
140	175.00	.16500	79.000	.3300-01	.2720-01	.3300-01	.8086-03	.6673-03	.8086-03	.4840	3.597	541.5
140	175.00	.17500	78.000	.5300-01	.4370-01	.5300-01	.1298-02	.1071-02	.1298-02	.7740	5.567	543.2
139	180.00	.10000-01	59.000	.2807	.2308	.2807	.6840-02	.5624-02	.6840-02	.4025	29.70	556.5
139	180.00	.25000-01	60.000	.9250-01	.7640-01	.9250-01	.2254-02	.1861-02	.2254-02	1.358	9.771	542.2
139	180.00	.50000-01	61.000	.4410-01	.3640-01	.4410-01	.1074-02	.8878-03	.1074-02	.6520	4.159	538.3
139	180.00	.75000-01	62.000	.2310-01	.1910-01	.2310-01	.5618-03	.4645-03	.5618-03	.3410	2.180	537.3
139	180.00	.10000+00	63.000	.1380-01	.1150-01	.1380-01	.3375-03	.2791-03	.3375-03	.2050	1.348	537.4
139	180.00	.12500	64.000	.9800-02	.8100-02	.9800-02	.2379-03	.1967-03	.2379-03	.1450	1.010	537.3
139	180.00	.15000	65.000	.6700-02	.5500-02	.6700-02	.1642-03	.1358-03	.1642-03	.1000+00	.6970	537.4
139	180.00	.16000	66.000	.1900-01	.1570-01	.1900-01	.4639-03	.3834-03	.4639-03	.2810	1.570	539.0
139	180.00	.17000	67.000	.6510-01	.5370-01	.6510-01	.1586-02	.1309-02	.1586-02	.9550	5.321	542.8
139	180.00	.20000	69.000	.1950-01	.1620-01	.1950-01	.4781-03	.3951-03	.4781-03	.2900	1.797	539.1
139	180.00	.40100	72.000	.6300-02	.5200-02	.6300-02	.1546-03	.1277-03	.1546-03	.9400-01	.7970	539.8
139	180.00	.50000	73.000	.9500-02	.7800-02	.9500-02	.2314-03	.1912-03	.2314-03	.1400	1.191	539.8
139	180.00	.60100	74.000	.9900-02	.8200-02	.9900-02	.2413-03	.1994-03	.2413-03	.1460	1.203	539.7
139	180.00	.70100	75.000	.7800-02	.6500-02	.7800-02	.1907-03	.1576-03	.1907-03	.1150	.9210	539.2

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

FUSELAGE

PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BOFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
119	7.970	1.511	20.00	.0000	180.0	321.3	.3400-01	1285.	93.80	1.499	3782.	.3017-04
120	7.970	1.510	20.00	.0000	180.0	318.0	.3300-01	1277.	93.20	1.484	3770.	.3005-04
227	7.970	1.497	19.94	.0000	180.0	319.7	.3400-01	1289.	94.10	1.492	3788.	.2993-04

RUN NUMBER	MU	HREF BTU/ R	ST FR R =
119	7549-07	3001-01	0.0175
120	7501-07	2982-01	.3315-01
227	7573-07	2995-01	.3319-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
227	.00000	.00000	1.0000	.8993	.7234	.7465	.2894-01	.2185-01	.2235-01	14.91	80.50	606.6
227	.00000	.50000-02	2.0000	.7424	.6025	.6168	.2824-01	.1805-01	.1848-01	12.35	83.44	604.6
227	.00000	.10000-01	3.0000	.5777	.4719	.5038	.1730-01	.1414-01	.1509-01	9.949	65.80	585.2
227	.00000	.20000-01	4.0000	.2315	.1918	.2136	.6834-02	.5745-02	.6399-02	4.316	24.12	537.7
227	.00000	.30000-01	5.0000	.2294	.1833	.2162	.6872-02	.5671-02	.6476-02	4.184	23.22	551.3
227	.00000	.40000-01	6.0000	.1864	.1540	.1782	.5584-02	.4613-02	.5339-02	3.420	19.01	547.6
227	.00000	.50000-01	7.0000	.1664	.1373	.1608	.4985-02	.4112-02	.4816-02	3.026	20.33	553.1
227	.00000	.60000-01	8.0000	.1631	.1347	.1588	.4886-02	.4034-02	.4756-02	2.980	18.91	550.1
227	.00000	.70000-01	9.0000	.1374	.1134	.1348	.4117-02	.3398-02	.4037-02	2.508	17.40	550.9
227	.00000	.80000-01	10.000	.1064	.8780-01	.1049	.3187-02	.2631-02	.3143-02	1.947	13.52	549.2
227	.00000	.90000-01	11.000	.9450-01	.7810-01	.9360-01	.2832-02	.2341-02	.2804-02	1.738	11.05	546.4
227	.00000	-10000+00	12.000	.8250-01	.6820-01	.8210-01	.2473-02	.2044-02	.2458-02	1.519	9.141	545.7
227	.00000	.12000	14.000	.7680-01	.6350-01	.7670-01	.2299-02	.1901-02	.2297-02	1.416	7.888	544.1
227	.00000	.13000	15.000	.7180-01	.5930-01	.7180-01	.2150-02	.1778-02	.2151-02	1.323	7.757	544.5
227	.00000	.14000	16.000	.6420-01	.5310-01	.6430-01	.1923-02	.1590-02	.1927-02	1.183	7.527	544.9
227	.00000	.15000	18.000	.6250-01	.5170-01	.6280-01	.1873-02	.1548-02	.1881-02	1.151	7.118	545.5
227	.00000	.17000	19.000	.6220-01	.5140-01	.6260-01	.1864-02	.1541-02	.1874-02	1.145	7.280	546.1

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H19T01 BTU/ R FT2SEC	H1T01 BTU/ R FT2SEC	H1TAN BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
227	.00000	.18000	20.000	.6230-01	.5150-01	.6270-01	.1867-02	.1543-02	.1878-02	1.146	7.286	546.2
227	.00000	.19000	21.000	.6320-01	.5230-01	.6370-01	.1893-02	.1566-02	.1907-02	1.166	7.419	544.4
227	.00000	.20000	22.000	.5880-01	.4860-01	.5930-01	.1762-02	.1456-02	.1777-02	1.081	6.875	546.4
227	.00000	.22500	23.000	.5320-01	.4400-01	.5380-01	.1594-02	.1317-02	.1612-02	.9790	6.223	546.1
227	.00000	.25000	801.00	.5200-01	.4300-01	.5270-01	.1558-02	.1287-02	.1577-02	.9560	6.078	546.3
227	.00000	.30000	802.00	.4750-01	.3920-01	.4810-01	.1423-02	.1176-02	.1441-02	.8720	5.543	547.1
227	.00000	.35000	803.00	.4710-01	.3890-01	.4770-01	.1410-02	.1164-02	.1428-02	.8610	5.470	548.9
227	.00000	.40000	804.00	.4450-01	.3680-01	.4510-01	.1334-02	.1102-02	.1351-02	5.319	5.319	549.9
227	.00000	.45000	805.00	.4310-01	.3560-01	.4370-01	.1291-02	.1065-02	.1308-02	.7860	5.284	551.5
227	.00000	.50000	806.00	.3730-01	.3080-01	.3780-01	.1117-02	.0919-03	.1132-02	.6790	4.705	552.7
227	.00000	.55000	807.00	.3370-01	.2780-01	.3410-01	.1009-02	.0816-03	.1022-02	.6110	4.511	554.7
227	.00000	.60000	808.00	.3000-01	.2470-01	.3040-01	.0894-03	.0740-03	.0910-03	.5440	4.015	555.0
227	.00000	.65000	809.00	.2740-01	.2260-01	.2770-01	.0820-03	.0678-03	.0838-03	.4950	3.651	556.8
227	.00000	.70000	810.00	.2790-01	.2300-01	.2830-01	.0836-03	.0682-03	.0847-03	.5040	3.845	557.3
227	.00000	.75000	811.00	.2780-01	.2290-01	.2810-01	.0818-03	.0652-03	.0827-03	.5010	3.696	557.6
227	.00000	.80000	812.00	.2680-01	.2380-01	.2920-01	.0836-03	.0715-03	.0879-03	.5210	3.843	557.0
227	.00000	.85000	813.00	.2760-01	.2270-01	.2820-01	.0824-03	.0681-03	.0845-03	.4990	3.809	556.4
227	.00000	.90000	814.00	.2570-01	.2120-01	.2640-01	.0709-03	.0658-03	.0790-03	.4670	3.343	553.7
227	.00000	.92500	815.00	.1970-01	.1630-01	.2030-01	.0509-03	.0487-03	.0672-03	.3590	2.952	552.1
227	.00000	.95000	816.00	.1850-01	.1530-01	.1910-01	.0542-03	.0542-03	.0570-03	.3380	2.775	551.1
227	.00000	.97500	817.00	.1720-01	.1420-01	.1770-01	.0514-03	.0424-03	.0530-03	.3130	2.574	551.1
227	.00000	1.0150	818.00	.0870-02	.7200-02	.9000-02	.0594-03	.0214-03	.0283-03	.1600	1.185	544.7
227	.00000	1.0300	919.00	.1010-01	.8300-02	.1040-01	.0302-03	.0201-03	.0312-03	.1860	1.385	543.6
227	.00000	1.0600	821.00	.1000-01	.8300-02	.1030-01	.0291-03	.0247-03	.0303-03	.1850	1.553	542.7
227	.00000	1.1500	89.000	.1790-01	.1480-01	.1790-01	.0536-03	.0447-03	.0569-03	.3340	2.015	538.5
227	.00000	2.0000	91.000	.3260-01	.2700-01	.3260-01	.0976-03	.0803-03	.0976-03	.6040	3.741	541.9
227	.00000	50000-01	90.000	.1270-01	.1050-01	.1270-01	.0381-03	.0316-03	.0381-03	.2370	1.432	537.6
227	.00000	50000	823.00	.4910-01	.4050-01	.4970-01	.1470-02	.1213-02	.1489-02	.8920	7.065	553.2
227	.00000	50000	824.00	.4510-01	.3720-01	.4570-01	.1351-02	.1113-02	.1369-02	.8160	6.449	556.4
227	.00000	60000	825.00	.3010-01	.2480-01	.3050-01	.0905-03	.0749-03	.0923-03	.5430	4.808	557.1
227	.00000	70000	826.00	.3590-01	.2960-01	.3640-01	.1076-02	.0859-03	.1090-02	.6470	4.770	558.7
227	.00000	80000	827.00	.3370-01	.2780-01	.3420-01	.1011-02	.0825-03	.1024-02	.6090	4.493	557.3
227	.00000	90000	828.00	.2580-01	.2130-01	.2650-01	.0735-03	.0638-03	.0793-03	.4690	3.710	554.1
119	20.000	10000+00	103.00	.1468	.1211	.1468	.0406-02	.0365-02	.0406-02	2.670	15.60	550.6
119	20.000	15000	104.00	.8240-01	.6810-01	.8240-01	.2474-02	.2044-02	.2474-02	1.512	9.615	545.5
227	20.000	92500	971.00	.3400-01	.2810-01	.3400-01	.1020-02	.0840-03	.1020-02	.6170	4.560	554.8
227	20.000	95000	975.00	.4570-01	.3770-01	.4570-01	.1369-02	.1128-02	.1368-02	.8280	6.118	554.6
227	20.000	97500	980.00	.4760-01	.3930-01	.4760-01	.1427-02	.1178-02	.1427-02	.8680	6.423	551.8
119	22.000	50000-01	105.00	.2197	.1811	.2197	.6592-02	.5436-02	.6592-02	3.984	22.10	552.2
227	24.000	20000	93.000	.3810-01	.3150-01	.3810-01	.1140-02	.0932-03	.1140-02	.7040	4.363	542.2
119	24.500	10000+00	106.00	.1672	.1379	.1672	.5018-02	.4139-02	.5018-02	3.035	19.24	551.8
119	25.500	15000	107.00	.1005	.8290-01	.1005	.3016-02	.2487-02	.3016-02	1.823	16.19	551.9
227	30.000	92500	970.00	.2480-01	.2040-01	.2480-01	.0749-03	.0624-03	.0749-03	.4520	3.347	550.6

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	HITAW) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTMDT DEG. R /SEC	TW DEG. R
227	30.000	.95000	974.00	.2830-01	.2330-01	.2830-01	.8463-03	.6986-03	.8463-03	.5160	3.821	550.2
227	30.000	.97500	979.00	.3370-01	.2790-01	.3370-01	.1010-02	.8356-03	.1010-02	.6250	4.649	541.0
119	31.500	.20000	108.00	.6460-01	.5330-01	.6460-01	.1939-02	.1600-02	.1939-02	1.178	11.90	549.0
227	32.000	.40000	831.00	.7110-01	.5870-01	.7200-01	.2130-02	.1757-02	.2157-02	1.234	8.968	552.7
227	32.000	.50000	832.00	.5710-01	.4710-01	.5790-01	.1711-02	.1410-02	.1734-02	1.031	7.363	557.4
227	32.000	.60000	833.00	.4940-01	.4070-01	.5010-01	.1481-02	.1220-02	.1501-02	.8910	5.970	558.7
227	32.000	.70000	834.00	.2750-01	.2270-01	.2790-01	.8245-03	.6789-03	.8353-03	.4960	3.780	558.8
227	32.000	.80000	835.00	.3400-01	.2860-01	.3440-01	.1017-02	.8393-03	.1030-02	.6140	4.386	556.4
227	32.000	.90000	836.00	.2710-01	.2240-01	.2780-01	.8131-03	.6707-03	.8336-03	.4940	3.648	553.2
227	32.000	.95000	837.00	.2900-01	.2390-01	.2990-01	.6587-03	.5168-03	.8346-03	.5290	4.045	551.6
227	32.000	.97500	838.00	.2760-01	.2280-01	.2840-01	.8256-03	.6820-03	.8521-03	.5050	4.010	548.3
227	32.000	1.0150	839.00	.1610-01	.1330-01	.1610-01	.4824-03	.3388-03	.4815-03	.2970	2.403	545.0
227	32.000	1.0300	840.00	.1740-01	.1440-01	.1740-01	.5219-03	.4316-03	.5209-03	.3210	2.512	544.2
227	32.000	1.0450	841.00	.1840-01	.1520-01	.1930-01	.5505-03	.4553-03	.5495-03	.3390	2.606	543.9
227	32.000	1.0600	842.00	.1650-01	.1370-01	.1650-01	.4953-03	.4056-03	.4944-03	.3050	2.520	543.6
119	35.000	.50000-01	115.00	.1494	.1233	.1494	.4482-02	.3693-02	.4482-02	2.720	17.26	549.8
119	35.000	.20000	110.00	.7380-01	.6080-01	.7380-01	.2214-02	.1826-02	.2214-02	1.339	13.51	551.7
119	39.000	.10000+00	116.00	.1055	.8710-01	.1055	.3167-02	.2615-02	.3167-02	1.928	12.25	547.7
119	40.000	.76000-01	121.00	.8150-01	.6730-01	.8150-01	.2445-02	.2021-02	.2445-02	1.497	9.529	544.2
119	40.000	.15000	111.00	.1377	.1135	.1377	.4133-02	.3405-02	.4133-02	2.484	18.34	555.6
119	40.000	.20000	112.00	.7520-01	.6200-01	.7520-01	.2258-02	.1861-02	.2258-02	1.359	15.06	554.6
119	42.500	.50000-01	127.00	.1141	.9420-01	.1141	.3425-02	.2827-02	.3425-02	2.083	14.03	548.4
119	45.000	.15000	117.00	.8610-01	.7110-01	.8610-01	.2584-02	.2135-02	.2584-02	1.580	9.260	545.0
227	45.000	.92500	969.00	.3100-02	.2600-02	.3100-02	.9323-04	.7713-04	.9323-04	.5800-01	.4280	542.6
227	45.000	.95000	973.00	.1700-02	.1400-02	.1700-02	.4976-04	.4116-04	.4976-04	.3100-01	.2280	543.6
227	45.000	.97500	978.00	.3400-02	.2800-02	.3400-02	.1009-03	.8349-04	.1009-03	.6200-01	.4620	543.6
119	51.000	.20000	118.00	.4850-01	.4010-01	.4850-01	.1455-02	.1203-02	.1455-02	.8930	5.687	542.8
119	60.000	.50000-01	131.00	.6290-01	.5200-01	.6290-01	.1888-02	.1562-02	.1888-02	1.160	7.835	542.5
119	67.500	.20000	128.00	.2940-01	.2440-01	.2940-01	.8838-03	.7310-03	.8838-03	.5440	4.041	541.5
227	75.000	.97500	977.00	.4100-02	.3400-02	.4100-02	.1216-03	.1005-03	.1216-03	.7500-01	.5560	544.3
227	85.000	.97500	976.00	.5500-02	.4500-02	.5500-02	.1633-03	.1351-03	.1633-03	.1010	.7470	544.3
119	105.00	.40100	135.00	.1120-01	.9200-02	.1120-01	.3353-03	.2773-03	.3353-03	.2060	1.590	542.3
119	105.00	.50100	136.00	.1920-01	.1580-01	.1920-01	.5749-03	.4751-03	.5749-03	.3510	2.794	545.1
119	105.00	.60100	137.00	.3370-01	.2780-01	.3370-01	.1010-02	.8342-03	.1010-02	.6150	4.681	547.9
119	105.00	.70100	138.00	.4950-01	.4090-01	.4950-01	.1487-02	.1227-02	.1487-02	.9010	7.140	550.5
119	105.00	.80000	139.00	.2130-01	.1790-01	.2130-01	.4303-03	.3558-03	.4303-03	.2640	2.102	543.0
119	113.00	.60100	146.00	.2160-01	.1790-01	.2160-01	.6490-03	.5362-03	.6490-03	.3960	3.151	545.5
119	116.00	.60100	147.00	.2370-01	.1950-01	.2370-01	.7110-03	.5873-03	.7110-03	.4340	3.447	546.3
119	116.00	.75100	148.00	.4110-01	.3390-01	.4110-01	.1234-02	.1019-02	.1234-02	.7500	5.948	548.9
119	120.00	.10000+00	132.00	.2120-01	.1750-01	.2120-01	.6361-03	.5266-03	.6361-03	.3930	2.375	538.3
119	120.00	.80500	247.00	.1394	.1394	.1394	.4183-02	.3445-02	.4183-02	2.509	20.44	556.8
119	120.00	.82900	248.00	.8360-01	.6830-01	.8360-01	.2508-02	.2069-02	.2508-02	1.521	12.44	550.1
119	120.00	.86200	249.00	.5920-01	.4830-01	.5920-01	.1777-02	.1468-02	.1777-02	1.087	7.900	544.9

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OH-49B (AEDC V4IB-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTMDT DEG. R 7SEC	TW DEG. R
119	130.00	.80500	253.00	.1089	.8980-01	.1089	.3270-02	.2695-02	.3270-02	1.971	15.58	553.9
119	130.00	.82900	254.00	.6050-01	.5000-01	.6050-01	.1817-02	.1501-02	.1817-02	1.110	8.553	545.6
119	130.00	.86200	255.00	.2800-01	.2310-01	.2800-01	.8391-03	.6943-03	.8391-03	.5170	4.253	540.6
119	135.00	.40100	142.00	.1400-02	.1200-02	.1400-02	.4183-04	.3462-04	.4183-04	.2600-01	.2000	535.2
119	135.00	.50100	143.00	.1900-02	.1600-02	.1900-02	.5842-04	.4834-04	.5842-04	.3600-01	.2960	540.2
119	135.00	.60100	144.00	.3700-02	.3000-02	.3700-02	.1099-03	.9090-04	.1099-03	.5800-01	.5230	540.8
119	135.00	.70100	145.00	.4100-02	.3400-02	.4100-02	.1219-03	.1009-03	.1219-03	.7500-01	.5980	541.1
119	140.00	.18000	85.000	.2360-01	.1950-01	.2360-01	.7073-03	.5856-03	.7073-03	.4370	3.371	538.0
119	140.00	.19500	87.000	.1760-01	.1460-01	.1760-01	.5291-03	.4379-03	.5291-03	.3260	2.512	539.9
119	145.00	.80500	259.00	.5520-01	.4560-01	.5520-01	.1657-02	.1369-02	.1657-02	1.012	7.802	545.6
120	145.00	.82900	260.00	.1900-01	.1590-01	.1920-01	.5739-03	.4742-03	.5739-03	.3490	2.615	541.5
120	145.00	.86200	261.00	.5700-02	.4700-02	.5700-02	.1707-03	.1412-03	.1707-03	.1040	.8610	537.5
119	150.00	.16000	86.000	.1990-01	.1650-01	.1990-01	.5984-03	.4952-03	.5984-03	.3690	2.747	539.7
119	150.00	.18000	84.000	.3770-01	.3120-01	.3770-01	.1131-02	.9350-03	.1131-02	.6950	5.163	542.1
119	150.00	.19000	82.000	.5000-03	.4000-03	.5000-03	.1598-04	.1324-04	.1598-04	.1000-01	.7400-01	535.3
119	155.00	.16000	80.000	.1760-01	.1460-01	.1760-01	.5276-03	.4367-03	.5276-03	.3260	2.425	539.2
119	155.00	.18000	83.000	.5000-03	.5000-03	.5000-03	.1644-04	.1363-04	.1644-04	.1000-01	.7600-01	534.9
119	155.00	.19000	77.000	.5870-01	.4850-01	.5870-01	.1762-02	.1455-02	.1762-02	1.076	8.552	545.8
119	175.00	.15000	81.000	.1490-01	.1230-01	.1490-01	.4458-03	.3689-03	.4458-03	.2750	1.981	539.5
119	175.00	.16500	79.000	.3890-01	.3220-01	.3890-01	.1168-02	.9656-03	.1168-02	.7170	5.324	542.9
119	175.00	.17500	78.000	.5830-01	.4870-01	.5830-01	.1768-02	.1460-02	.1768-02	1.080	7.752	545.8
227	180.00	.10000-01	59.000	.2791	.2296	.2791	.8359-02	.6878-02	.8359-02	5.003	36.83	561.6
227	180.00	.25000-01	60.000	.9160-01	.7570-01	.9160-01	.2742-02	.2269-02	.2742-02	1.689	12.13	544.3
227	180.00	.50000-01	61.000	.4430-01	.3570-01	.4430-01	.1327-02	.1099-02	.1327-02	.8240	5.255	539.5
227	180.00	.50000-01	62.000	.2170-01	.1800-01	.2170-01	.6505-03	.5388-03	.6505-03	.4050	2.582	538.2
227	183.00	.10000+00	63.000	.1310-01	.1080-01	.1310-01	.3913-03	.3241-03	.3913-03	.2430	1.599	538.3
227	180.00	.12500	64.000	.9300-02	.7700-02	.9300-02	.2772-03	.2296-03	.2772-03	.1720	1.204	538.2
227	180.00	.15000	65.000	.7000-02	.5800-02	.7000-02	.2090-03	.1731-03	.2090-03	.1300	.9070	538.7
227	180.00	.16000	66.000	.2120-01	.1750-01	.2120-01	.6347-03	.5253-03	.6347-03	.3930	2.193	540.8
227	180.00	.17000	67.000	.6850-01	.5660-01	.6850-01	.2053-02	.1697-02	.2053-02	1.261	7.014	546.0
227	180.00	.20000	69.000	.1810-01	.1500-01	.1810-01	.5428-03	.4493-03	.5428-03	.3360	2.084	540.8
227	180.00	.40100	72.000	.7400-02	.6100-02	.7400-02	.2211-03	.1829-03	.2211-03	.1370	1.160	542.2
227	180.00	.50000	73.000	.1080-01	.8900-02	.1080-01	.3225-03	.2667-03	.3225-03	.1990	1.686	544.2
227	180.00	.60100	74.000	.1120-01	.9300-02	.1120-01	.3367-03	.2784-03	.3367-03	.2070	1.701	544.8
227	180.00	.70100	75.000	.8100-02	.6700-02	.8100-02	.2422-03	.2003-03	.2422-03	.1490	1.187	544.0

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
85	7.980	1.982	20.03	.0000	180.0	431.5	.4500-01	1303.	94.80	2.002	3808.	.3974-04
86	7.980	2.006	20.00	.0000	180.0	432.1	.4500-01	1294.	94.20	2.005	3794.	.4008-04
87	7.980	2.026	20.00	.0000	180.0	431.5	.4500-01	1284.	93.50	2.002	3780.	.4032-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
85	.7635-07	.3476-01	0.0175
86	.7582-07	.3475-01	.2878-01
87	.7525-07	.3468-01	.2867-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(ISO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
85	.00000	.00000	1.0000	.9196	.7453	.7630	.3197-01	.2591-01	.2653-01	17.81	95.72	615.4
85	.00000	.50000-02	2.0000	.7458	.6029	.6173	.2593-01	.2096-01	.2146-01	14.25	95.45	622.6
85	.00000	.10000-01	3.0000	.5384	.4386	.4685	.1872-01	.1525-01	.1629-01	10.72	70.37	599.8
85	.00000	.20000-01	4.0000	.3258	.2680	.2996	.1133-01	.0318-02	.1042-01	6.845	37.67	568.1
85	.00000	.30000-01	5.0000	.2298	.1895	.2164	.0798-02	.6586-02	.7522-02	4.890	27.02	560.2
85	.00000	.40000-01	6.0000	.1843	.1521	.1761	.6406-02	.5289-02	.6122-02	3.952	21.89	561.8
85	.00000	.50000-01	7.0000	.1659	.1367	.1601	.5766-02	.4752-02	.5567-02	3.521	23.56	555.4
85	.00000	.60000-01	8.0000	.1616	.1333	.1572	.5618-02	.4635-02	.5466-02	3.450	21.80	558.3
85	.00000	.70000-01	9.0000	.1339	.1104	.1312	.3580-02	.2955-02	.3529-02	2.205	15.25	556.6
85	.00000	.80000-01	10.000	.1030	.8500-01	.1015	.3382-02	.2794-02	.3347-02	2.095	13.27	553.0
85	.00000	.90000-01	11.000	.9730-01	.8040-01	.9630-01	.3005-02	.2483-02	.2937-02	1.504	11.17	552.2
85	.00000	.10000+00	12.000	.8640-01	.7140-01	.8550-01	.2804-02	.2319-02	.2800-02	1.747	9.707	549.2
85	.00000	.12000	14.000	.8070-01	.6670-01	.8060-01	.2455-02	.2031-02	.2456-02	1.529	8.936	549.8
85	.00000	.13000	15.000	.7060-01	.5840-01	.7070-01	.2202-02	.1821-02	.2206-02	1.372	8.707	549.5
85	.00000	.14000	16.000	.6330-01	.5240-01	.6340-01	.2389-02	.1976-02	.2398-02	1.487	9.177	549.9
85	.00000	.16000	18.000	.6870-01	.5680-01	.6900-01	.2252-02	.1862-02	.2263-02	1.401	8.887	550.4
85	.00000	.17000	19.000	.6480-01	.5360-01	.6510-01						

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1801)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAH BTU/ R FT2SEC	QDOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TH DEG. R
85	.00000	.18000	20.000	.6500-01	.5370-01	.6530-01	.2258-02	.1867-02	.2271-02	1.404	8.909	550.6
85	.00000	.19000	21.000	.5630-01	.4660-01	.5670-01	.1958-02	.1659-02	.1971-02	1.221	7.758	548.4
85	.00000	.20000	22.000	.5770-01	.4770-01	.5820-01	.2006-02	.1699-02	.2023-02	1.221	7.913	550.6
85	.00000	.22500	23.000	.5330-01	.4410-01	.5390-01	.1853-02	.1532-02	.1873-02	1.154	7.326	549.5
85	.00000	.25000	801.00	.5150-01	.4260-01	.5210-01	.1790-02	.1480-02	.1812-02	1.115	7.081	549.2
85	.00000	.30000	802.00	.4660-01	.3850-01	.4710-01	.1619-02	.1339-02	.1639-02	1.008	6.401	549.5
85	.00000	.35000	803.00	.4760-01	.3940-01	.4820-01	.1619-02	.1339-02	.1639-02	1.008	6.401	549.5
85	.00000	.40000	804.00	.4520-01	.3740-01	.4580-01	.1573-02	.1300-02	.1592-02	1.029	6.523	551.5
85	.00000	.45000	805.00	.3960-01	.3270-01	.4010-01	.1377-02	.1139-02	.1394-02	.9750	6.365	552.2
85	.00000	.50000	806.00	.3630-01	.3000-01	.3670-01	.1262-02	.1042-02	.1271-02	.7790	5.396	554.7
85	.00000	.55000	807.00	.3490-01	.2880-01	.3530-01	.1213-02	.1001-02	.1228-02	.7470	5.516	556.2
85	.00000	.60000	808.00	.3050-01	.2520-01	.3090-01	.1062-02	.0784-03	.1075-02	.6540	4.824	556.7
85	.00000	.65000	809.00	.2630-01	.2170-01	.2660-01	.0914-03	.0754-03	.0926-03	.5620	4.145	558.0
85	.00000	.70000	810.00	.2680-01	.2210-01	.2710-01	.0914-03	.0754-03	.0926-03	.5720	4.363	558.2
85	.00000	.75000	811.00	.2610-01	.2150-01	.2640-01	.0914-03	.0754-03	.0926-03	.5570	4.109	557.4
85	.00000	.80000	812.00	.2830-01	.2330-01	.2860-01	.0824-03	.0809-03	.0941-03	.6050	4.466	556.4
85	.00000	.85000	813.00	.2780-01	.2290-01	.2840-01	.0858-03	.0877-03	.0977-03	.5970	4.566	553.9
85	.00000	.90000	814.00	.2600-01	.2150-01	.2670-01	.0953-03	.0748-03	.0927-03	.5630	4.037	550.0
85	.00000	.92500	815.00	.2020-01	.1670-01	.2080-01	.0702-03	.0581-03	.0721-03	.4350	3.615	547.7
85	.00000	.95000	816.00	.1960-01	.1620-01	.2010-01	.0605-03	.0563-03	.0702-03	.4260	3.511	546.4
85	.00000	.97500	817.00	.1690-01	.1400-01	.1750-01	.0589-03	.0477-03	.0674-03	.3700	3.047	545.1
85	.00000	1.0150	818.00	.9000-02	.7400-02	.9300-02	.3120-03	.2589-03	.3225-03	.1980	1.475	537.9
85	.00000	1.0300	819.00	.1010-01	.8400-02	.1040-01	.3513-03	.2915-03	.3630-03	.2230	1.664	536.9
85	.00000	1.0450	820.00	.9300-02	.7500-02	.9300-02	.3132-03	.2600-03	.3237-03	.1990	1.590	536.7
85	.00000	1.0600	821.00	.6300-02	.5200-02	.6500-02	.2190-03	.1818-03	.2263-03	.1390	1.176	536.0
85	.00000	.15000	89.000	.1840-01	.1530-01	.1840-01	.0401-03	.0310-03	.0401-03	.4060	2.449	538.7
85	.00000	.20000	91.000	.3500-01	.2310-01	.3500-01	.1218-02	.1011-02	.1218-02	.7730	4.802	537.6
85	.00000	.40000	90.000	.5800-02	.4300-02	.5800-02	.2015-03	.1672-03	.2015-03	.1280	.7730	537.4
85	.00000	.50000	823.00	.4940-01	.4080-01	.5000-01	.1718-02	.1419-02	.1740-02	1.061	8.395	555.0
85	.00000	.60000	824.00	.4520-01	.3730-01	.4580-01	.1572-02	.1297-02	.1592-02	.9660	7.628	558.2
85	.00000	.70000	825.00	.2970-01	.2450-01	.3010-01	.1032-02	.0815-03	.1045-02	.6340	5.608	558.3
85	.00000	.80000	826.00	.3760-01	.3110-01	.3810-01	.1309-02	.1079-02	.1325-02	.8030	5.916	559.1
85	.00000	.90000	827.00	.3370-01	.2780-01	.3410-01	.1171-02	.0970-03	.1186-02	.7220	5.328	556.2
85	.00000	.10000	828.00	.2590-01	.2140-01	.2650-01	.0901-03	.0744-03	.0921-03	.5610	4.448	549.6
86	.00000	.10000+00	103.00	.1471	.1214	.1471	.5109-02	.4217-02	.5109-02	3.121	18.22	553.2
86	.00000	.15000	104.00	.8140-01	.6720-01	.8140-01	.2828-02	.2337-02	.2828-02	1.740	11.04	549.0
85	.00000	.25000	971.00	.4220-01	.3480-01	.4220-01	.1466-02	.1211-02	.1466-02	.9180	6.713	553.0
85	.00000	.35000	975.00	.5110-01	.4230-01	.5110-01	.1779-02	.1469-02	.1779-02	1.104	8.172	551.1
85	.00000	.45000	980.00	.5050-01	.4190-01	.5060-01	.1759-02	.1456-02	.1759-02	1.102	8.176	546.0
86	.00000	.50000-01	105.00	.2193	.1808	.2193	.7620-02	.6282-02	.7620-02	4.628	25.61	556.8
85	.00000	.20000	93.000	.4210-01	.3490-01	.4210-01	.1462-02	.1213-02	.1462-02	.9270	5.749	538.8
86	.00000	.10000+00	106.00	.1652	.1362	.1652	.5739-02	.4732-02	.5739-02	3.485	22.08	556.1
86	.00000	.15000	107.00	.9870-01	.8140-01	.9870-01	.3430-02	.2830-02	.3430-02	2.092	18.55	554.1



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## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(GTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	QDOT DEG. R /SEC	TW DEG. R
85	30.000	.92500	970.00	.3310-01	.2740-01	.3310-01	.1152-02	.9336-03	.1152-02	.7210	5.342	547.1
85	30.000	.95000	974.00	.3740-01	.3090-01	.3740-01	.1299-02	.1075-02	.1299-02	.7210	5.342	547.1
85	30.000	.97500	979.00	.3200-01	.2660-01	.3200-01	.1113-02	.1075-02	.1113-02	.7080	5.280	546.3
86	31.500	.20000	108.00	.6580-01	.5430-01	.6580-01	.2285-02	.1887-02	.2285-02	1.401	14.13	551.2
85	32.000	.40000	831.00	.7040-01	.5810-01	.7130-01	.2447-02	.2020-02	.2447-02	1.511	10.46	555.0
85	32.000	.50000	832.00	.6290-01	.5190-01	.6370-01	.2187-02	.1804-02	.2214-02	1.343	9.582	558.2
85	32.000	.60000	833.00	.5190-01	.4280-01	.5260-01	.1805-02	.1485-02	.1828-02	1.105	7.402	560.1
85	32.000	.70000	834.00	.4170-01	.3440-01	.4220-01	.1450-02	.1195-02	.1468-02	.8940	6.730	562.6
85	32.000	.80000	835.00	.3410-01	.2810-01	.3450-01	.1184-02	.1195-02	.1199-02	.7290	5.205	556.8
85	32.000	.90000	836.00	.2710-01	.2240-01	.2770-01	.1099-02	.1099-02	.1131-02	.5860	4.342	549.3
85	32.000	.95000	837.00	.3160-01	.2620-01	.3250-01	.1037-02	.1037-02	.1069-02	.6890	5.290	543.0
85	32.000	.97500	838.00	.2530-01	.2470-01	.3080-01	.1037-02	.1037-02	.1069-02	.6890	5.290	543.0
85	32.000	1.0150	839.00	.1670-01	.1460-01	.1760-01	.5804-03	.4819-03	.5792-03	3.700	3.010	535.1
85	32.000	1.0300	840.00	.1760-01	.1520-01	.1820-01	.6120-03	.5083-03	.6107-03	.3910	3.070	533.9
85	32.000	1.0450	841.00	.1820-01	.1520-01	.1820-01	.6344-03	.5269-03	.6331-03	.4050	3.126	534.2
85	32.000	1.0600	842.00	.1670-01	.1390-01	.1670-01	.5811-03	.4827-03	.5799-03	.3710	3.082	533.2
86	35.000	.50000-01	115.00	.1476	.1218	.1476	.5130-02	.4233-02	.5130-02	3.132	19.84	553.6
86	35.000	.20000	110.00	.7340-01	.6050-01	.7340-01	.2550-02	.2103-02	.2550-02	1.553	15.64	555.0
86	39.000	.10000+00	116.00	.9120-01	.8220-01	.9120-01	.3835-02	.3167-02	.3835-02	2.354	14.93	550.4
86	40.070	.76000-01	121.00	.8220-01	.6800-01	.8220-01	.2857-02	.2363-02	.2857-02	1.767	11.24	545.7
86	40.000	.15000	111.00	.1390	.1145	.1390	.4830-02	.3980-02	.4830-02	2.924	21.56	558.7
86	40.000	.20000	112.00	.7440-01	.6140-01	.7440-01	.2585-02	.2132-02	.2585-02	1.574	17.43	555.2
86	42.500	.50000-01	127.00	.9270-01	.8270-01	.9270-01	.3900-02	.3222-02	.3900-02	2.396	16.13	549.8
85	45.000	.15000	117.00	.8840-01	.7310-01	.8840-01	.3071-02	.2538-02	.3071-02	1.895	11.09	547.1
85	45.000	.92500	969.00	.4600-02	.3900-02	.4600-02	.1616-03	.1341-03	.1616-03	.1030	.7660	536.2
85	45.000	.95000	973.00	.3100-02	.2500-02	.3100-02	.1068-03	.8865-04	.1068-03	.6800-01	.5070	535.7
85	45.000	.97500	978.00	.5100-02	.4200-02	.5100-02	.1774-03	.1473-03	.1774-03	.1130	.8420	535.7
86	51.000	.20000	118.00	.4650-01	.3850-01	.4650-01	.1615-02	.1337-02	.1615-02	1.005	6.400	542.3
86	60.000	.50000-01	131.00	.6110-01	.5060-01	.6110-01	.2123-02	.1757-02	.2123-02	1.318	8.897	543.5
86	67.500	.20000	128.00	.2970-01	.2460-01	.2970-01	.1031-02	.8543-03	.1031-02	.6430	4.787	540.3
85	75.000	.97500	977.00	.5400-02	.4500-02	.5400-02	.1873-03	.1555-03	.1873-03	.1190	.8890	535.9
85	85.000	.95000	976.00	.6200-02	.5200-02	.6200-02	.2167-03	.1793-03	.2167-03	.1380	1.030	535.3
86	105.00	.40100	135.00	.1150-01	.9500-02	.1150-01	.3997-03	.3315-03	.3997-03	.2510	1.948	535.6
86	105.00	.50100	136.00	.1940-01	.1600-01	.1940-01	.6723-03	.5572-03	.6723-03	.4210	3.359	538.3
86	105.00	.60100	137.00	.2900-01	.2400-01	.2900-01	.1007-02	.8335-03	.1007-02	.6270	4.993	541.6
86	105.00	.70100	138.00	.5530-01	.4570-01	.5530-01	.1920-02	.1588-02	.1920-02	1.186	9.426	546.3
86	105.00	.80000	139.00	.1630-01	.1350-01	.1630-01	.5667-03	.4696-03	.5667-03	.3550	2.831	538.4
86	113.00	.60100	146.00	.2120-01	.1760-01	.2120-01	.7354-03	.6101-03	.7354-03	.600	3.671	539.3
86	116.00	.60100	147.00	.2230-01	.1850-01	.2230-01	.7745-03	.6416-03	.7745-03	.4840	3.858	539.7
86	116.00	.75100	148.00	.3620-01	.3000-01	.3620-01	.1257-02	.1041-02	.1257-02	.7820	6.229	542.1
86	120.00	.10000+00	132.00	.2180-01	.1810-01	.2180-01	.7572-03	.6277-03	.7572-03	.4750	2.868	537.2
86	120.00	.80500	247.00	.1339	.1105	.1339	.4651-02	.3839-02	.4651-02	2.843	23.22	553.0
86	120.00	.82900	248.00	.7760-01	.6420-01	.7760-01	.2696-02	.2230-02	.2696-02	1.669	13.70	545.0

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TH DEG. R
85	120.00	.86200	249.00	.5120-01	.4240-01	.5120-01	.1779-02	.1474-02	.1779-02	1.113	8.126	538.3
86	130.00	.80500	253.00	.1069	.8830-01	.1069	.3713-02	.3069-02	.3713-02	2.286	18.14	548.4
86	130.00	.82900	254.00	.6060-01	.5020-01	.6060-01	.2104-02	.1743-02	.2104-02	1.311	10.14	540.9
86	130.00	.86200	255.00	.2760-01	.2290-01	.2760-01	.9590-03	.7953-03	.9590-03	.6030	4.977	535.5
86	135.00	.40100	142.00	.1200-02	.1000-02	.1200-02	.4273-04	.3547-04	.4273-04	.2700-01	.2100	531.7
86	135.00	.50100	143.00	.1500-02	.1200-02	.1500-02	.5186-04	.4305-04	.5186-04	.3300-01	.2710	533.6
86	135.00	.60100	144.00	.4900-02	.4000-02	.4900-02	.1687-03	.1400-03	.1687-03	.1060	.8250	534.1
86	135.00	.70100	145.00	.5000-02	.4200-02	.5000-02	.1747-03	.1449-03	.1747-03	.1100	.8800	534.5
86	140.00	.18000	25.000	.1340-01	.1110-01	.1340-01	.4644-03	.3850-03	.4644-03	.2910	2.245	537.1
86	140.00	.19500	87.000	.1960-01	.1630-01	.1960-01	.6823-03	.5657-03	.6823-03	.4280	3.303	536.5
86	145.00	.80500	259.00	.5680-01	.4710-01	.5680-01	.1974-02	.1635-02	.1974-02	1.232	9.529	539.9
87	145.00	.82900	260.00	.2500-01	.2070-01	.2500-01	.8664-03	.7176-03	.8664-03	.5370	4.038	536.0
87	145.00	.86200	261.00	.5200-02	.4300-02	.5200-02	.1811-03	.1503-03	.1811-03	.1130	.9370	530.6
86	150.00	.16000	86.000	.2020-01	.1670-01	.2020-01	.7018-03	.5817-03	.7018-03	.4400	3.276	537.5
86	150.00	.18000	84.000	.4160-01	.3450-01	.4160-01	.1447-02	.1198-02	.1447-02	.9030	6.716	540.2
86	150.00	.19000	82.000	.7000-03	.6000-03	.7000-03	.2553-04	.2118-04	.2553-04	.1200	1.200	534.7
86	155.00	.16000	80.000	.1970-01	.1630-01	.1970-01	.6844-03	.5674-03	.6844-03	.4290	3.201	534.6
86	155.00	.18000	83.000	.3000-03	.2000-03	.3000-03	.1025-04	.8501-05	.1025-04	.6000-02	.4960-01	534.6
86	160.00	.18000	77.000	.6500-01	.5380-01	.6500-01	.2259-02	.1865-02	.2259-02	1.398	11.11	545.5
86	175.00	.15000	81.000	.1600-01	.1330-01	.1600-01	.5569-03	.4617-03	.5569-03	.3500	2.522	536.4
86	175.00	.16500	79.000	.4290-01	.3560-01	.4290-01	.1492-02	.1236-02	.1492-02	.9300	6.916	541.0
86	175.00	.17500	78.000	.6460-01	.5350-01	.6460-01	.2244-02	.1857-02	.2244-02	1.394	10.02	543.2
85	180.00	.10000-01	59.000	.2787	.2290	.2787	.9688-02	.7951-02	.9688-02	5.815	42.58	572.2
85	180.00	.25000-01	60.000	.9240-01	.7640-01	.9240-01	.3213-02	.2656-02	.3213-02	1.996	14.29	551.1
85	180.00	.50000-01	61.000	.4340-01	.3600-01	.4340-01	.1510-02	.1250-02	.1510-02	.9490	6.041	543.8
85	180.00	.75000-01	62.000	.2220-01	.1840-01	.2220-01	.7728-03	.6407-03	.7728-03	.4880	3.111	540.4
85	180.00	.10000+00	63.000	.1360-01	.1130-01	.1360-01	.4737-03	.3929-03	.4737-03	.3000	1.971	539.0
85	180.00	.12500	64.000	.9100-02	.7600-02	.9100-02	.3166-03	.2627-03	.3166-03	.2010	1.404	537.4
85	180.00	.15000	65.000	.7900-02	.6600-02	.7900-02	.2745-03	.2278-03	.2745-03	.1750	1.221	535.9
85	180.00	.16000	66.000	.2540-01	.2100-01	.2540-01	.8313-03	.7310-03	.8313-03	.5580	3.117	539.0
85	180.00	.17000	67.000	.6680-01	.5540-01	.6680-01	.2324-02	.1926-02	.2324-02	1.465	8.167	542.0
85	180.00	.20000	69.000	.1740-01	.1450-01	.1740-01	.6066-03	.5036-03	.6066-03	.3860	2.401	535.6
85	180.00	.40100	72.000	.9100-02	.7500-02	.9100-02	.3160-03	.2625-03	.3160-03	.2020	1.723	533.9
85	180.00	.50000	73.000	.1270-01	.1060-01	.1270-01	.4430-03	.3679-03	.4430-03	.2830	2.413	534.3
85	180.00	.60100	74.000	.1210-01	.1010-01	.1210-01	.4222-03	.3506-03	.4222-03	.2690	2.225	534.4
85	180.00	.70100	75.000	.8800-02	.7300-02	.8800-02	.3060-03	.2542-03	.3060-03	.1960	1.566	533.3

FUSELAGE

PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLA = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
67	7.950	2.500	20.00	.0000	180.0	546.9	.5600-01	1304.	94.70	2.524	3810.	.5003-04
68	7.990	2.488	20.02	.0000	180.0	544.2	.5600-01	1304.	94.70	2.511	3810.	.4979-04
69	7.990	2.546	19.98	.0000	180.0	546.9	.5600-01	1288.	93.69	2.524	3787.	.5064-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
67	.7625-07	.3904-01	0.0175
68	.7623-07	.3894-01	.2578-01
69	.7532-07	.3895-01	.2584-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	T-ETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(ISTO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	H(TAO) BTU/ R FT2SEC	H(TAM) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	UTWOT DEG. R /SEC	TM DEG. R
67	.00000	.00000	1.0000	.9113	.7358	.7536	.3557-01	.2872-01	.2942-01	.2942-01	19.45	104.0	626.7
67	.00000	.50000-02	2.0000	.7425	.5979	.6125	.2898-01	.2334-01	.2391-01	.2391-01	12.63	104.1	634.3
67	.00000	.10000-01	3.0000	.5546	.4507	.4818	.2165-01	.1759-01	.1881-01	.1881-01	12.25	80.14	607.6
67	.00000	.20000-01	4.0000	.3302	.2716	.3037	.1289-01	.1060-01	.1185-01	.1185-01	7.777	42.75	570.2
67	.00000	.30000-01	5.0000	.2280	.1880	.2147	.8899-02	.7338-02	.8381-02	.8381-02	5.455	30.13	560.6
67	.00000	.40000-01	6.0000	.1853	.1530	.1771	.7233-02	.5973-02	.6913-02	.6913-02	4.472	24.77	555.2
67	.00000	.50000-01	7.0000	.1618	.1334	.1562	.6316-02	.5206-02	.6099-02	.6099-02	3.862	25.84	562.1
67	.00000	.60000-01	8.0000	.1595	.1316	.1552	.6224-02	.5136-02	.6057-02	.6057-02	3.831	24.22	558.0
67	.00000	.70000-01	9.0000	.1323	.1092	.1297	.5165-02	.4262-02	.5084-02	.5084-02	3.176	21.94	558.7
67	.00000	.80000-01	10.000	.1039	.8590-01	.1025	.4057-02	.3352-02	.4001-02	.4001-02	2.515	17.42	553.7
67	.00000	.90000-01	11.000	.9760-01	.8070-01	.9660-01	.3810-02	.3150-02	.3771-02	.3771-02	2.370	15.03	551.5
67	.00000	.10000*00	12.000	.8780-01	.7260-01	.8730-01	.3429-02	.2836-02	.3407-02	.3407-02	2.138	12.83	550.1
67	.00000	.12000	14.000	.8380-01	.7430-01	.8960-01	.3504-02	.2901-02	.3499-02	.3499-02	2.197	12.22	546.4
67	.00000	.13000	15.000	.6960-01	.5750-01	.6960-01	.2716-02	.2248-02	.2717-02	.2717-02	1.700	9.948	547.6
67	.00000	.14000	16.000	.6110-01	.5060-01	.6120-01	.2386-02	.1975-02	.2390-02	.2390-02	1.495	9.502	547.0
67	.00000	.16000	18.000	.6390-01	.5290-01	.6420-01	.95-02	.2065-02	.2505-02	.2505-02	1.562	9.648	547.6
67	.00000	.17000	19.000	.6240-01	.5170-01	.6270-01	.2437-02	.2016-02	.2449-02	.2449-02	1.524	9.680	548.1

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AEDC VKF V41B-57A (OH-98B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(TAW) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWOT DEG. R /SEC	TW DEG. R
67	.00000	.15000	20.000	.6140-01	.5080-01	.6170-01	.2396-02	.1983-02	.2410-02	1.499	9.519	548.1
67	.00000	.19000	21.000	.5817-01	.4890-01	.5950-01	.2307-02	.1910-02	.2303-02	1.446	9.192	546.7
67	.00000	.23000	22.000	.5810-01	.4840-01	.5900-01	.2384-02	.1890-02	.2303-02	1.430	9.084	547.6
67	.00000	.22500	23.000	.5200-01	.4300-01	.5260-01	.2030-02	.1680-02	.2052-02	1.272	8.086	546.8
67	.00000	.25000	801.00	.5050-01	.4180-01	.5120-01	.1973-02	.1633-02	.1997-02	1.235	7.847	547.5
67	.00000	.30000	802.00	.4640-01	.3640-01	.4700-01	.1811-02	.1499-02	.1834-02	1.133	7.199	548.0
67	.00000	.35000	803.00	.4680-01	.3870-01	.4740-01	.1828-02	.1512-02	.1851-02	1.139	7.229	550.2
67	.00000	.40000	804.00	.4540-01	.3750-01	.4600-01	.1772-02	.1465-02	.1794-02	1.102	7.197	551.5
67	.00000	.45000	805.00	.4040-01	.3340-01	.4090-01	.1576-02	.1302-02	.1595-02	.9780	6.571	553.0
67	.00000	.50000	806.00	.3600-01	.2970-01	.3640-01	.1405-02	.1160-02	.1422-02	.8700	6.025	554.3
67	.00000	.55000	807.00	.3360-01	.2770-01	.3400-01	.1311-02	.1083-02	.1328-02	.8090	5.973	556.3
67	.00000	.60000	808.00	.2960-01	.2440-01	.3000-01	.1155-02	.0932-03	.1169-02	.7130	5.259	556.4
67	.00000	.65000	809.00	.2580-01	.2130-01	.2610-01	.1007-02	.0811-03	.1020-02	.6200	4.577	557.3
67	.00000	.70000	810.00	.2540-01	.2100-01	.2580-01	.0934-03	.0809-03	.1006-02	.6120	4.866	557.9
67	.00000	.75000	811.00	.2490-01	.2050-01	.2520-01	.0970-03	.0809-03	.0927-03	.5980	4.410	557.4
67	.00000	.80000	812.00	.2850-01	.2350-01	.2890-01	.1112-02	.0918-03	.1126-02	.6860	5.062	556.8
67	.00000	.85000	813.00	.2680-01	.2210-01	.2740-01	.1047-02	.0843-03	.1071-02	.6470	4.940	555.6
67	.00000	.90000	814.00	.2630-01	.2180-01	.2700-01	.1027-02	.0849-03	.1053-02	.6390	4.576	551.5
67	.00000	.92500	815.00	.2100-01	.1740-01	.2160-01	.0814-03	.0695-03	.0835-03	.5130	4.221	549.1
67	.00000	.95000	816.00	.1990-01	.1650-01	.2050-01	.0771-03	.0632-03	.0797-03	.4870	4.009	547.3
67	.00000	.97500	817.00	.1890-01	.1560-01	.1950-01	.0768-03	.0609-03	.0759-03	.4620	3.805	546.8
67	.00000	1.0150	818.00	.1020-01	.0500-02	.1060-01	.3988-03	.3309-03	.4121-03	.2530	1.888	537.9
67	.00000	1.0300	819.00	.1140-01	.0500-02	.1180-01	.4459-03	.3701-03	.4608-03	.2840	2.118	536.3
67	.00000	1.0450	820.00	.1150-01	.0500-02	.1180-01	.4471-03	.372-03	.4621-03	.2850	2.277	536.0
67	.00000	1.0600	821.00	.1230-01	.1020-01	.1270-01	.4795-03	.3982-03	.4955-03	.3060	2.583	535.6
67	.00000	1.5000	89.000	.1850-01	.1530-01	.1850-01	.7213-03	.5985-03	.7213-03	.4500	2.769	538.0
67	.00000	.20000	91.000	.3580-01	.2970-01	.3580-01	.1396-02	.1158-02	.1396-02	.8850	5.485	540.1
67	.00000	.50000-01	90.000	.1190-01	.0900-02	.1190-01	.4643-03	.3854-03	.4643-03	.2960	1.786	537.0
67	.00000	.40000	823.00	.4850-01	.4000-01	.4910-01	.1891-02	.1562-02	.1915-02	1.170	9.254	555.1
67	.00000	.50000	824.00	.4510-01	.3720-01	.4570-01	.1760-02	.1452-02	.1782-02	1.083	8.552	558.3
67	.00000	.60000	825.00	.3020-01	.2490-01	.3050-01	.1177-02	.0914-03	.1192-02	.7240	6.403	558.7
67	.00000	.70000	826.00	.3590-01	.2960-01	.3630-01	.1401-02	.1155-02	.1419-02	.8590	6.331	560.0
67	.00000	.80000	827.00	.3480-01	.2870-01	.3520-01	.1358-02	.1121-02	.1375-02	.8370	6.174	557.4
67	.00000	.90000	828.00	.2600-01	.2150-01	.2660-01	.1015-02	.0888-03	.1040-02	.6310	4.999	551.9
68	.00000	.10000-00	103.00	.1485	.1227	.1485	.5782-02	.4776-02	.5782-02	3.582	20.89	553.8
68	.00000	.15000	104.00	.9970-01	.8250-01	.9970-01	.3881-02	.3211-02	.3881-02	2.424	15.39	548.8
67	.00000	.92500	971.00	.4820-01	.3980-01	.4820-01	.1080-02	.0952-02	.1080-02	1.160	8.562	556.3
67	.00000	.95000	975.00	.5550-01	.4530-01	.5550-01	.2168-02	.1790-02	.2168-02	1.340	9.894	555.5
67	.00000	.97500	980.00	.5500-01	.4550-01	.5500-01	.2147-02	.1776-02	.2147-02	1.339	9.912	550.0
68	.00000	.50000-01	105.00	.2190	.1807	.2190	.8529-02	.7036-02	.8529-02	5.242	28.98	558.7
67	.00000	.20000	93.000	.4600-01	.3810-01	.4600-01	.1796-02	.1489-02	.1796-02	1.135	7.030	541.6
68	.00000	.10000-00	106.00	.1634	.1348	.1634	.6361-02	.5250-02	.6361-02	3.917	24.76	557.0
68	.00000	.15000	107.00	.9830-01	.8120-01	.9830-01	.3829-02	.3162-02	.3829-02	2.367	20.98	555.0

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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## AEDC VKF V41B-57A (OH-498) COLLATION DECK

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## OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTAOT DEG. R /SEC	TW DEG. R
67	30.000	.92500	970.00	.3980-01	.3290-01	.3980-01	.1554-02	.1285-02	.1554-02	.9670	7.155	551.3
67	30.000	.95000	974.00	.4320-01	.3570-01	.4320-01	.1687-02	.1395-02	.1587-02	.9670	7.155	551.9
67	30.000	.97500	979.00	.4040-01	.3350-01	.4040-01	.1577-02	.1308-02	.1577-02	1.001	7.450	539.0
68	31.500	.70000	108.00	.6510-01	.5380-01	.6510-01	.2536-02	.2096-02	.2536-02	1.575	15.88	552.2
67	32.000	.40000	831.00	.7080-01	.5840-01	.7170-01	.2763-02	.2281-02	.2797-02	1.708	11.82	555.3
67	32.000	.50000	832.00	.5830-01	.4810-01	.5910-01	.2277-02	.1878-02	.2306-02	1.397	9.963	559.8
67	32.000	.60000	833.00	.5020-01	.4140-01	.5090-01	.1960-02	.1616-02	.1985-02	1.200	8.029	561.5
67	32.000	.70000	834.00	.3860-01	.3190-01	.3910-01	.1508-02	.1244-02	.1528-02	.9250	7.052	560.0
67	32.000	.80000	835.00	.3390-01	.2800-01	.3430-01	.1323-02	.1092-02	.1340-02	.8160	5.824	557.1
67	32.000	.90000	836.00	.2750-01	.2270-01	.2820-01	.1073-02	.8874-03	.1130-02	.6680	4.939	551.5
67	32.000	.95000	837.00	.3170-01	.2620-01	.3260-01	.1238-02	.1024-02	.1274-02	.7730	5.925	549.0
67	32.000	.0150	838.00	.1610-01	.1330-01	.1500-01	.1230-02	.1019-02	.1269-02	.7730	5.151	545.0
67	32.000	.0300	839.00	.1740-01	.1449	.1449	.6268-03	.5201-03	.6255-03	.3980	3.236	538.1
67	32.000	.0450	840.00	.1850-01	.1530-01	.1840-01	.6780-03	.5628-03	.6767-03	.4320	3.387	536.9
67	32.000	.0600	841.00	.1610-01	.1330-01	.1600-01	.7216-03	.5990-03	.7202-03	.4600	3.544	536.6
68	35.000	.20000	115.00	.7340-01	.6060-01	.7340-01	.5641-02	.4658-02	.5641-02	.4000	3.314	536.0
68	35.000	.20000	110.00	.7340-01	.6060-01	.7340-01	.5641-02	.4658-02	.5641-02	3.485	22.06	555.4
68	35.000	.20000	110.00	.7340-01	.6060-01	.7340-01	.5641-02	.4658-02	.5641-02	1.768	17.81	554.7
68	35.000	.20000	110.00	.7340-01	.6060-01	.7340-01	.5641-02	.4658-02	.5641-02	2.650	16.82	549.2
68	35.000	.20000	110.00	.7340-01	.6060-01	.7340-01	.5641-02	.4658-02	.5641-02	1.993	12.67	546.9
68	35.000	.20000	110.00	.7340-01	.6060-01	.7340-01	.5641-02	.4658-02	.5641-02	3.324	24.48	560.4
68	35.000	.20000	110.00	.7340-01	.6060-01	.7340-01	.5641-02	.4658-02	.5641-02	1.780	19.70	556.9
68	35.000	.20000	110.00	.7340-01	.6060-01	.7340-01	.5641-02	.4658-02	.5641-02	2.715	18.26	551.3
67	45.000	.92500	969.00	.7000-02	.5800-02	.7000-02	.3409-02	.2821-02	.3409-02	2.135	12.50	547.0
67	45.000	.95000	973.00	.7000-02	.5800-02	.7000-02	.3409-02	.2821-02	.3409-02	1.740	1.295	537.4
67	45.000	.97500	978.00	.7000-02	.5800-02	.7000-02	.3409-02	.2821-02	.3409-02	.7000-01	.5250	537.2
68	51.000	.20000	118.00	.4690-01	.3880-01	.4690-01	.1825-02	.1513-02	.1825-02	1.152	7.343	541.9
68	51.000	.20000	131.00	.6060-01	.5020-01	.6060-01	.2361-02	.1955-02	.2361-02	1.485	10.02	544.2
68	51.000	.20000	128.00	.2910-01	.2410-01	.2910-01	.1133-02	.9395-03	.1133-02	1.710	5.336	540.3
68	51.000	.20000	128.00	.2910-01	.2410-01	.2910-01	.1133-02	.9395-03	.1133-02	1.200	.8970	537.7
67	85.000	.97500	976.00	.6900-02	.5700-02	.6900-02	.2675-03	.2220-03	.2675-03	1.700	1.268	537.5
68	105.00	.40100	135.00	.1070-01	.8800-02	.1070-01	.4152-03	.3446-03	.4152-03	.2640	2.045	537.3
68	105.00	.50100	136.00	.1870-01	.1550-01	.1870-01	.7270-03	.6028-03	.7270-03	.4600	3.655	540.9
68	105.00	.60100	137.00	.2760-01	.2290-01	.2760-01	.8919-03	.7179-02	.8919-03	.6780	5.395	543.6
68	105.00	.70100	138.00	.5520-01	.4570-01	.5520-01	.2150-02	.1779-02	.2150-02	1.343	10.66	548.6
68	105.00	.80000	139.00	.1910-01	.1580-01	.1910-01	.7423-03	.6155-03	.7423-03	.4700	3.743	540.7
68	105.00	.90000	140.00	.2060-01	.1710-01	.2060-01	.8019-03	.6648-03	.8019-03	.5070	4.038	541.4
68	105.00	.01000	147.00	.2040-01	.1690-01	.2040-01	.7946-03	.6587-03	.7946-03	.5020	4.000	541.6
68	116.00	.75100	148.00	.3170-01	.2630-01	.3170-01	.1236-02	.1024-02	.1236-02	.7790	6.199	543.2
68	120.00	.10000+00	132.00	.2100-01	.1740-01	.2100-01	.8159-03	.6770-03	.8159-03	.5130	3.133	537.5
68	120.00	.80500	247.00	.1305	.1076	.1305	.5080-02	.4191-02	.5080-02	3.122	25.41	558.7
68	120.00	.82900	248.00	.7620-01	.6300-01	.7620-01	.2966-02	.2453-02	.2966-02	1.849	15.13	549.7

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAJ)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
68	120.00	.86200	249.00	.4650-01	.3860-01	.4663-01	.1813-02	.1503-02	.1813-02	1.145	8.341	541.8
68	130.00	.80500	253.00	.1051	.8680-01	.1051	.4093-02	.3382-02	.4093-02	2.536	20.06	553.7
68	130.00	.82900	254.00	.6020-01	.4980-01	.6023-01	.2342-02	.1939-02	.2342-02	1.470	11.33	545.6
68	130.00	.86200	255.00	.2810-01	.2330-01	.2810-01	.1095-02	.9080-03	.1095-02	.6940	5.717	539.2
68	135.00	.40100	142.00	.1100-02	.9000-03	.1100-02	.4279-04	.3554-04	.4279-04	.2700-01	2.120	534.1
68	135.00	.50100	143.00	.1300-02	.1000-02	.1300-02	.4922-04	.4087-04	.4922-04	.3100-01	.2590	535.3
68	135.00	.60100	144.00	.6500-02	.5400-02	.6500-02	.2534-03	.2103-03	.2534-03	1.1610	1.250	536.9
68	135.00	.70100	145.00	.5700-02	.4700-02	.5700-02	.2227-03	.1849-03	.2227-03	1.132	1.132	536.9
68	140.00	.18000	85.000	.1520-01	.1260-01	.1520-01	.5925-03	.4915-03	.5925-03	3.760	2.896	538.7
68	140.00	.19500	87.000	.2020-01	.1670-01	.2020-01	.7847-03	.6510-03	.7847-03	4.980	3.838	538.4
68	145.00	.80500	259.00	.5900-01	.4890-01	.5900-01	.2297-02	.1902-02	.2297-02	1.443	1.113	544.9
69	145.00	.82900	260.00	.2250-01	.1860-01	.2250-01	.8760-03	.7253-03	.8760-03	.5430	4.077	539.4
69	145.00	.86200	261.00	.5100-02	.4300-02	.5100-02	.2001-03	.1660-03	.2001-03	1.250	1.035	533.5
68	150.00	.16000	86.000	.2110-01	.1750-01	.2110-01	.8234-03	.6830-03	.8234-03	.5220	3.888	539.1
68	150.00	.18000	84.000	.4760-01	.3950-01	.4760-01	.1854-02	.1537-02	.1854-02	1.171	8.695	542.4
68	150.00	.19000	82.000	.9000-03	.8000-03	.9000-03	.3659-04	.3041-04	.3659-04	.2300-01	1.750	531.8
68	155.00	.16000	80.000	.1990-01	.1650-01	.1990-01	.7753-03	.6433-03	.7753-03	.4930	3.669	538.0
68	155.00	.18000	83.000	.6000-03	.5000-03	.6000-03	.2295-04	.1907-04	.2295-04	1.500-01	1.100	531.6
68	160.00	.18000	77.000	.6960-01	.5760-01	.6960-01	.2711-02	.2242-02	.2711-02	1.689	13.39	550.5
68	175.00	.15000	81.000	.1640-01	.1360-01	.1640-01	.6373-03	.5288-03	.6373-03	.4050	2.920	537.7
68	175.00	.16500	79.000	.4650-01	.3850-01	.4650-01	.1810-02	.1500-02	.1810-02	1.140	8.473	543.2
68	175.00	.17500	78.000	.7100-01	.5880-01	.7100-01	.2765-02	.2289-02	.2765-02	1.732	12.43	547.0
67	180.00	.10000-01	59.000	.2313	.2313	.2313	.1100-01	.9028-02	.1100-01	6.571	48.02	576.1
67	180.00	.25000-01	60.000	.9100-01	.7530-01	.9100-01	.3553-02	.2939-02	.3553-02	2.220	15.91	548.8
67	180.00	.50000-01	61.000	.4210-01	.3490-01	.4210-01	.1645-02	.1363-02	.1645-02	1.038	6.613	542.3
67	180.00	.75000-01	62.000	.2180-01	.1810-01	.2180-01	.8501-03	.7052-03	.8501-03	.5390	3.442	539.0
67	180.00	.10000*00	63.000	.1240-01	.1030-01	.1240-01	.4829-03	.4007-03	.4829-03	.3070	2.017	538.0
67	180.00	.12500	64.000	.8600-02	.7100-02	.8600-02	.3352-03	.2782-03	.3352-03	.2130	1.491	537.0
67	180.00	.15000	65.000	.6400-02	.5400-02	.6400-02	.2516-03	.2089-03	.2516-03	1.600	1.121	536.4
67	180.00	.16000	66.000	.2540-01	.2110-01	.2540-01	.9922-03	.8228-03	.9922-03	3.508	3.508	539.9
67	180.00	.17000	67.000	.6560-01	.5440-01	.6560-01	.2562-02	.2122-02	.2562-02	8.957	8.957	545.4
67	180.00	.20000	69.000	.1650-01	.1370-01	.1650-01	.6452-03	.5355-03	.6452-03	4.100	2.548	537.6
67	180.00	.40100	72.000	.9600-02	.7900-02	.9600-02	.3736-03	.3100-03	.3736-03	2.021	2.021	538.3
67	180.00	.50000	73.000	.1460-01	.1210-01	.1460-01	.5692-03	.4720-03	.5692-03	3.066	3.066	540.3
67	180.00	.60100	74.000	.1420-01	.1180-01	.1420-01	.5553-03	.4605-03	.5553-03	2.894	2.894	540.4
67	180.00	.70100	75.000	.8600-02	.7100-02	.8600-02	.3359-03	.2786-03	.3359-03	.2130	1.699	539.3

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
46	7.990	2.948	19.97	.0000	180.0	672.9	.6500-01	1341.	97.40	3.105	3864.	.5984-04
47	7.990	2.975	19.98	.0000	180.0	674.5	.7000-01	1335.	97.00	3.112	3856.	.6025-04
48	7.990	2.969	19.97	.0000	180.0	673.7	.7000-01	1336.	97.00	3.109	3857.	.6014-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R	ST FR R =
46	.7844-07	.4351-01	0.0175
47	.7809-07	.4353-01	.2364-01
48	.7813-07	.4351-01	.2355-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(TAW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TH DEG. R
46	.00000	.00000	1.0000	.9061	.7329	.7504	.3943-01	.3189-01	.3265-01	22.37	118.9	639.8
46	.00000	.30000-02	2.0000	.7474	.6027	.6173	.3252-01	.2622-01	.2686-01	18.16	120.1	648.8
46	.00000	.10000-01	3.0000	.5763	.4693	.5014	.2508-01	.2042-01	.2182-01	14.75	95.93	619.0
46	.00000	.20000-01	4.0000	.3292	.2715	.3031	.1432-01	.1181-01	.1319-01	9.034	49.51	576.5
46	.00000	.30000-01	5.0000	.2300	.1902	.2168	.1001-01	.8277-02	.9435-02	6.422	35.39	565.4
46	.00000	.40000-01	6.0000	.1845	.1529	.1765	.8028-02	.6652-02	.7681-02	5.205	28.78	558.8
46	.00000	.50000-01	7.0000	.1628	.1346	.1573	.7084-02	.5856-02	.6845-02	4.533	30.25	567.2
46	.00000	.60000-01	8.0000	.1604	.1328	.1562	.6981-02	.5778-02	.6797-02	4.500	28.38	562.5
46	.00000	.70000-01	9.0000	.1308	.1082	.1283	.5691-02	.4710-02	.5582-02	3.663	25.25	563.5
46	.00000	.80000-01	10.000	.1051	.8710-01	.1036	.4572-02	.3789-02	.4510-02	2.969	20.53	557.7
46	.00000	.90000-01	11.000	.9620-01	.7980-01	.9520-01	.4184-02	.3472-02	.4103-02	2.735	17.33	553.6
46	.00000	.10000+00	12.000	.8460-01	.7020-01	.8410-01	.3683-02	.3055-02	.3660-02	2.406	14.41	554.0
46	.00000	.12000	14.000	.6550-01	.5440-01	.6540-01	.2850-02	.2366-02	.2847-02	1.871	10.38	550.8
46	.00000	.13000	15.000	.6870-01	.5700-01	.6870-01	.2988-02	.2481-02	.2990-02	1.959	11.44	551.5
46	.00000	.14000	16.000	.6370-01	.5290-01	.6380-01	.2770-02	.2300-02	.2775-02	1.819	11.54	550.4
46	.00000	.16000	18.000	.6430-01	.5340-01	.6460-01	.2799-02	.2324-02	.2810-02	1.836	11.32	551.5
46	.00000	.17000	19.000	.6310-01	.5240-01	.6340-01	.2746-02	.2279-02	.2760-02	1.799	11.41	551.9

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	T-META	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AH) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
46	.00000	.18000	20.000	.6260-01	.5200-01	.6300-01	.2724-02	.2261-02	.2740-02	1.785	11.31	552.1
46	.00000	.19000	21.000	.6250-01	.5190-01	.6290-01	.2718-02	.2258-02	.2737-02	1.787	11.34	549.9
46	.00000	.20000	22.000	.5800-01	.4810-01	.5850-01	.2523-02	.2095-02	.2544-02	1.654	10.49	551.7
46	.00000	.22500	23.000	.5290-01	.4400-01	.5350-01	.2304-02	.1913-02	.2329-02	1.513	9.598	550.6
46	.00000	.25000	801.00	.5150-01	.4280-01	.5210-01	.2240-02	.1860-02	.2268-02	1.471	9.335	550.4
46	.00000	.30000	802.00	.4650-01	.3860-01	.4710-01	.2023-02	.1680-02	.2048-02	1.328	8.426	550.7
46	.35000	.35000	803.00	.4460-01	.3700-01	.4520-01	.1941-02	.1611-02	.1965-02	1.270	8.049	552.9
46	.40000	.40000	804.00	.4460-01	.3700-01	.4510-01	.1940-02	.1610-02	.1964-02	1.269	8.278	553.0
46	.45000	.45000	805.00	.4080-01	.3380-01	.4130-01	.1775-02	.1472-02	.1797-02	1.158	7.774	554.8
46	.50000	.50000	806.00	.3610-01	.2950-01	.3650-01	.1569-02	.1301-02	.1580-02	1.023	7.080	555.3
46	.55000	.55000	807.00	.3440-01	.2850-01	.3480-01	.1496-02	.1240-02	.1515-02	.9730	7.176	557.1
46	.60000	.60000	808.00	.2830-01	.2470-01	.3010-01	.1295-02	.1073-02	.1311-02	.8420	6.213	556.9
46	.65000	.65000	809.00	.2620-01	.2170-01	.2650-01	.1139-02	.9440-03	.1153-02	.7400	5.455	557.8
46	.70000	.70000	810.00	.2490-01	.2050-01	.2520-01	.1083-02	.8975-03	.1097-02	.7030	5.359	558.4
46	.75000	.75000	811.00	.2620-01	.2170-01	.2650-01	.1139-02	.9437-03	.1153-02	.7390	5.446	558.5
46	.80000	.80000	812.00	.3110-01	.2580-01	.3150-01	.1355-02	.1122-02	.1371-02	.6780	6.470	559.1
46	.85000	.85000	813.00	.3090-01	.2560-01	.3160-01	.1343-02	.1113-02	.1373-02	.6710	6.641	558.8
46	.90000	.90000	814.00	.3070-01	.2550-01	.3150-01	.1337-02	.1109-02	.1370-02	.6710	6.221	556.0
46	.92500	.92500	815.00	.2480-01	.2060-01	.2550-01	.1080-02	.8955-03	.1108-02	.7040	5.7	554.7
46	.95000	.95000	816.00	.2380-01	.1960-01	.2450-01	.1036-02	.8597-03	.1066-02	.6760	5.551	554.6
46	.97500	.97500	817.00	.2220-01	.1840-01	.2290-01	.9677-03	.8025-03	.9978-03	.6310	5.175	555.3
46	1.0150	1.0150	818.00	.1420-01	.1180-01	.1470-01	.6185-03	.5137-03	.6391-03	.4070	3.013	549.5
46	1.0300	1.0300	819.00	.1440-01	.1200-01	.1490-01	.6266-03	.5206-03	.6475-03	.4130	3.058	548.5
46	1.0450	1.0450	820.00	.1380-01	.1150-01	.1430-01	.6025-03	.5004-03	.6226-03	.3960	3.144	549.4
46	1.0600	1.0600	821.00	.1050-01	.8700-02	.1090-01	.4581-03	.3806-03	.4734-03	.3010	2.528	549.2
46	1.0630	1.0630	821.00	.1810-01	.1500-01	.1810-01	.7863-03	.6545-03	.7863-03	.5240	3.157	541.3
46	1.5000	1.5000	91.000	.3730-01	.3100-01	.3730-01	.1623-02	.1350-02	.1623-02	1.076	6.661	544.0
46	1.5000	1.5000	90.000	.9300-02	.7700-02	.9300-02	.4047-03	.3370-03	.4047-03	.2700	1.631	539.4
46	1.5000	1.5000	823.00	.4830-01	.4000-01	.4890-01	.2101-02	.1741-02	.2127-02	1.362	10.76	558.7
46	1.5000	1.5000	824.00	.4490-01	.3720-01	.4550-01	.1954-02	.1618-02	.1978-02	1.264	9.972	560.5
46	1.5000	1.5000	825.00	.3080-01	.2550-01	.3120-01	.1339-02	.1109-02	.1356-02	.8670	7.562	560.0
46	1.5000	1.5000	826.00	.3620-01	.3000-01	.3670-01	.1575-02	.1305-02	.1595-02	1.019	7.502	560.6
46	1.5000	1.5000	827.00	.3570-01	.2950-01	.3610-01	.1553-02	.1286-02	.1572-02	1.004	7.397	560.3
46	1.5000	1.5000	828.00	.2840-01	.2360-01	.2910-01	.1236-02	.1025-02	.1266-02	.8050	6.363	556.4
47	1.5000	1.5000	103.00	.1489	.1232	.1489	.6481-02	.5365-02	.6481-02	4.160	24.19	560.1
47	1.5000	1.5000	104.00	.8290-01	.6870-01	.8290-01	.3607-02	.2990-02	.3607-02	2.334	14.77	554.9
46	1.5000	1.5000	971.00	.5150-01	.4260-01	.5150-01	.2242-02	.1855-02	.2242-02	1.441	10.59	564.5
46	1.5000	1.5000	975.00	.5750-01	.4760-01	.5750-01	.2502-02	.2071-02	.2502-02	1.610	11.84	563.8
46	1.5000	1.5000	980.00	.5880-01	.4870-01	.5880-01	.2560-02	.2120-02	.2560-02	1.655	12.19	560.6
47	2.0000	2.0000	105.00	.2169	.1793	.2169	.9443-02	.7805-02	.9443-02	6.012	33.13	565.2
46	2.0000	2.0000	93.000	.5060-01	.4210-01	.5060-01	.2202-02	.1831-02	.2202-02	1.456	9.001	546.1
47	2.5000	2.5000	106.00	.1649	.1363	.1649	.7178-02	.5934-02	.7178-02	4.574	28.82	564.6
47	2.5000	2.5000	107.00	.9790-01	.8100-01	.9790-01	.4262-02	.3526-02	.4262-02	2.725	24.06	562.5



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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1801)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(GTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	QDOT DEG. R /SEC	TW DEG. R
46	30.000	.92500	970.00	.4480-01	.3720-01	.4480-01	.1951-02	.1617-02	.1951-02	1.268	9.359	557.0
46	30.000	.95000	974.00	.5060-01	.4190-01	.5060-01	.2203-02	.1825-02	.2203-02	1.427	10.51	559.5
46	30.000	.97500	979.00	.2870-01	.2390-01	.2870-01	.1249-02	.1038-02	.1249-02	.8230	6.098	548.4
47	31.500	.20000	108.00	.6400-01	.5300-01	.6400-01	.2788-02	.2309-02	.2788-02	1.795	18.05	558.1
46	32.000	.40000	831.00	.7230-01	.5990-01	.7320-01	.3145-02	.2606-02	.3185-02	2.037	14.07	559.7
46	32.000	.50000	832.00	.5730-01	.4740-01	.5800-01	.2493-02	.2064-02	.2525-02	1.608	11.45	562.5
46	32.000	.60000	833.00	.5020-01	.4150-01	.5080-01	.2183-02	.1807-02	.2211-02	1.407	9.413	562.6
46	32.000	.70000	834.00	.4480-01	.3710-01	.4540-01	.1950-02	.1614-02	.1974-02	1.258	9.575	562.0
46	32.000	.80000	835.00	.3420-01	.2840-01	.3470-01	.1489-02	.1234-02	.1508-02	.9640	6.875	559.8
46	32.000	.90000	836.00	.2780-01	.2310-01	.2850-01	.1210-02	.1003-02	.1239-02	.7870	5.810	556.4
46	32.000	.95000	837.00	.3160-01	.2620-01	.3250-01	.1373-02	.1138-02	.1413-02	.8940	6.823	556.4
46	32.000	.97500	838.00	.3390-01	.2810-01	.3490-01	.1474-02	.1222-02	.1519-02	.9590	7.597	556.1
46	32.000	1.0150	839.00	.1680-01	.1400-01	.1680-01	.7311-03	.6070-03	.7297-03	.4800	3.872	551.2
46	32.000	1.0300	840.00	.1790-01	.1480-01	.1780-01	.7777-03	.6453-03	.7762-03	.5110	3.982	550.1
46	32.000	1.0450	841.00	.2090-01	.1740-01	.2090-01	.5098-03	.7555-03	.9081-03	.5970	4.574	550.6
46	32.000	1.0600	842.00	.1550-01	.1290-01	.1550-01	.6737-03	.5595-03	.6724-03	.4430	3.645	549.6
47	35.000	.50000-01	115.00	.1218	.1218	.1472	.6406-02	.5301-02	.6406-02	4.103	25.89	561.3
47	35.000	.20000	110.00	.7170-01	.5930-01	.7170-01	.3119-02	.2580-02	.3119-02	3.065	19.39	555.9
47	39.000	.10000+00	116.00	.1090	.9030-01	.1090	.4745-02	.3932-02	.4745-02	2.272	20.02	552.8
47	40.000	.76000-01	121.00	.8040-01	.6670-01	.8040-01	.3500-02	.2903-02	.3500-02	3.848	28.21	569.6
47	40.000	1.5000	111.00	.1398	.1154	.1398	.6086-02	.5024-02	.6086-02	2.007	22.12	565.5
47	40.000	.20000	112.00	.7250-01	.5990-01	.7250-01	.3154-02	.2607-02	.3154-02	3.158	21.18	556.9
47	42.500	.50000-01	127.00	.1125	.9320-01	.1125	.4896-02	.4056-02	.4896-02	2.461	14.36	553.4
47	45.000	.15000	117.00	.8720-01	.7230-01	.8720-01	.3795-02	.3147-02	.3795-02	.7680	1.637	541.2
46	45.000	.92500	969.00	.7600-02	.6300-02	.7600-02	.3305-03	.2751-03	.3305-03	.1030	.7680	540.4
46	45.000	.95000	973.00	.3600-02	.3000-02	.3600-02	.1548-03	.1285-03	.1548-03	1.207	1.207	540.8
46	45.000	.97500	978.00	.5600-02	.4700-02	.5600-02	.2435-03	.2027-03	.2435-03	1.620	1.620	547.7
47	51.000	.20000	118.00	.4720-01	.3920-01	.4720-01	.2053-02	.1705-02	.2053-02	1.343	8.532	548.8
47	60.000	.50000-01	131.00	.6120-01	.5080-01	.6120-01	.2666-02	.2213-02	.2666-02	1.741	11.73	546.8
47	67.500	.20000	128.00	.2980-01	.2470-01	.2980-01	.1295-02	.1076-02	.1295-02	.8490	6.293	546.8
46	75.000	.97500	977.00	.5100-02	.4200-02	.5100-02	.2204-03	.1834-03	.2204-03	1.470	1.093	540.6
46	85.000	.97500	976.00	.7100-02	.5900-02	.7100-02	.3098-03	.2579-03	.3098-03	.2060	1.535	541.0
47	105.00	.40100	135.00	.1130-01	.9400-02	.1130-01	.4930-03	.4099-03	.4930-03	3.250	2.508	542.9
47	105.00	.50100	136.00	.1830-01	.1520-01	.1830-01	.7984-03	.6634-03	.7984-03	.5240	4.166	545.4
47	105.00	.60100	137.00	.2730-01	.2270-01	.2730-01	.1190-02	.9880-03	.1190-02	.7780	6.180	547.5
47	105.00	.70100	138.00	.5200-01	.4320-01	.5200-01	.2265-02	.1879-02	.2265-02	1.473	1.166	551.8
47	113.00	.80000	139.00	.2270-01	.1880-01	.2270-01	.9862-03	.8197-03	.9862-03	.6480	5.156	544.4
47	116.00	.60100	146.00	.2050-01	.1700-01	.2050-01	.8914-03	.7407-03	.8914-03	.5850	4.652	545.3
47	116.00	.60100	147.00	.2130-01	.1770-01	.2130-01	.9255-03	.7699-03	.9255-03	.6070	4.821	546.2
47	120.00	.75100	148.00	.2820-01	.2340-01	.2820-01	.1228-02	.1020-02	.1228-02	.8030	6.377	547.7
47	120.00	.10000+00	132.00	.2140-01	.1780-01	.2140-01	.9313-03	.7745-03	.9313-03	3.700	3.700	542.5
47	120.00	.80500	247.00	.1289	.1066	.1289	.5613-02	.4639-02	.5613-02	3.569	28.92	566.0
47	120.00	.82900	248.00	.7730-01	.6400-01	.7730-01	.3363-02	.2788-02	.3363-02	2.176	17.76	554.8

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B01)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
47	120.00	.86200	249.00	.4830-01	.4010-01	.4830-01	.2104-02	.1748-02	.2104-02	1.377	9.994	547.5
47	130.00	.80500	253.00	.1060	.8780-01	.1060	.4615-02	.3820-02	.4615-02	2.961	23.33	560.2
47	130.00	.82900	254.00	.6110-01	.5070-01	.6110-01	.2660-02	.2207-02	.2660-02	1.729	13.28	551.8
47	130.00	.86200	255.00	.2880-01	.2400-01	.2880-01	.1255-02	.1043-02	.1255-02	.8250	6.776	544.4
47	130.00	.96300	256.00	.1100-01	.9100-02	.1100-01	.4782-03	.3980-03	.4782-03	.3170	2.886	539.8
47	135.00	.40100	142.00	.9000-03	.8000-03	.9000-03	.3929-04	.3270-04	.3929-04	.2600-01	.2010	539.1
47	135.00	.50100	143.00	.2000-02	.1700-02	.2000-02	.8894-04	.7401-04	.8894-04	.5900-01	.4850	539.9
47	135.00	.60100	144.00	.4800-02	.4000-02	.4800-02	.2086-03	.1735-03	.2086-03	.1380	1.065	540.9
47	135.00	.70100	145.00	.6300-02	.5200-02	.6300-02	.2721-03	.2264-03	.2721-03	.1800	1.435	540.6
47	140.00	.18000	85.000	.1440-01	.1200-01	.1440-01	.6277-03	.5231-03	.6277-03	.4140	3.187	541.7
47	140.00	.19500	87.000	.2280-01	.1900-01	.2280-01	.9923-03	.8253-03	.9923-03	.5530	5.016	544.2
47	145.00	.80500	259.00	.6220-01	.5160-01	.6220-01	.2708-02	.2247-02	.2708-02	1.761	13.52	551.6
48	145.00	.82900	260.00	.3350-01	.2780-01	.3350-01	.1456-02	.1211-02	.1456-02	.9600	7.191	543.2
48	145.00	.86200	261.00	.4800-02	.4000-02	.4800-02	.2099-03	.1748-03	.2099-03	.1400	1.151	537.3
47	150.00	.16000	86.000	.2280-01	.1890-01	.2280-01	.9322-03	.8247-03	.9322-03	.6530	4.845	544.2
47	150.00	.18000	84.000	.5130-01	.4250-01	.5130-01	.2231-02	.1852-02	.2231-02	1.455	10.78	549.7
47	150.00	.19000	82.000	.1200-02	.1000-02	.1200-02	.5177-04	.4310-04	.5177-04	.3400-01	.2560	538.2
47	155.00	.16000	80.000	.2140-01	.1780-01	.2140-01	.9320-03	.7748-03	.9320-03	.6140	4.557	543.5
47	155.00	.18000	83.000	.2000-03	.2000-03	.2000-03	.1071-04	.8330-05	.1071-04	.7000-02	.5300-01	537.7
47	160.00	.17500	77.000	.8100-01	.6710-01	.8100-01	.3526-02	.2821-02	.3526-02	2.275	17.99	555.6
47	175.00	.15000	81.000	.1750-01	.1450-01	.1750-01	.6319-03	.5010	.6319-03	.5010	3.601	543.0
47	175.00	.15000	79.000	.5020-01	.4160-01	.5020-01	.1812-02	.1812-02	.1812-02	1.423	10.53	550.4
47	175.00	.17500	78.000	.7660-01	.6350-01	.7660-01	.2765-02	.2765-02	.2765-02	2.157	15.41	555.5
46	180.00	.10000-01	59.000	.2834	.2333	.2834	.1233-01	.1015-01	.1233-01	7.702	56.10	582.7
46	180.00	.25000-01	60.000	.9150-01	.7600-01	.9150-01	.3533-02	.3306-02	.3533-02	2.608	18.67	552.3
46	180.00	.50000-01	61.000	.4250-01	.3530-01	.4250-01	.1850-02	.1538-02	.1850-02	1.225	7.794	544.9
46	180.00	.75000-01	62.000	.2100-01	.1750-01	.2100-01	.9124-03	.7594-03	.9124-03	.6080	3.873	541.3
46	180.00	.10000+00	63.000	.1210-01	.1010-01	.1210-01	.5278-03	.4395-03	.5278-03	.3520	2.313	539.9
46	180.00	.12500	64.000	.8400-02	.7000-02	.8400-02	.3664-03	.3051-03	.3664-03	.2450	1.708	539.1
46	180.00	.15000	65.000	.6700-02	.5600-02	.6700-02	.2935-03	.2445-03	.2935-03	.1960	1.370	538.5
46	180.00	.16000	66.000	.2410-01	.2010-01	.2410-01	.1050-02	.8742-03	.1050-02	.6990	3.896	542.0
46	180.00	.17000	67.000	.6350-01	.5270-01	.6350-01	.2762-02	.2294-02	.2762-02	1.816	10.09	549.7
46	180.00	.20000	69.000	.1710-01	.1420-01	.1710-01	.7441-03	.6195-03	.7441-03	.4960	3.076	540.5
46	180.00	.40100	72.000	.1150-01	.9600-02	.1150-01	.5018-03	.4175-03	.5018-03	.3330	2.830	543.1
46	180.00	.50000	73.000	.1510-01	.1250-01	.1510-01	.6550-03	.5477-03	.6550-03	.4340	3.682	544.5
46	180.00	.60100	74.000	.1490-01	.1240-01	.1490-01	.6476-03	.5385-03	.6476-03	.4290	3.523	544.5
46	180.00	.70100	75.000	.8800-02	.7300-02	.8800-02	.3814-03	.3173-03	.3814-03	.2530	2.018	542.5

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1801)

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
28	8.000	3.262	19.97	.0000	180.0	762.4	.7800-01	1359.	98.50	3.498	3891.	.6651-04
29	8.000	3.309	20.00	.0000	180.0	762.1	.7800-01	1346.	97.60	3.497	3872.	.6713-04
30	8.000	3.346	20.00	.0000	180.0	759.3	.7800-01	1333.	96.60	3.484	3853.	.6755-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
28	.7931-07	.4629-31	0.0175
29	.7854-07	.4621-01	.2245-01
30	.7777-07	.4604-01	.2224-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	419T01 BTU/ R FT2SEC	H1T01 BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTMDT DEG. R /SEC	TM DEG. R
28	.00000	.00000	1.0000	.8834	.7132	.7303	.4090-01	.3302-01	.3381-01	23.29	122.9	654.1
28	.00000	.50000-02	2.0000	.7431	.6000	.6145	.3440-01	.2778-01	.2845-01	19.61	129.4	653.5
28	.00000	.10000-01	3.0000	.5615	.4583	.4893	.2599-01	.2122-01	.2265-01	15.70	102.1	619.6
28	.00000	.20000-01	4.0000	.3328	.2752	.3068	.1540-01	.1274-01	.1420-01	10.01	54.96	573.4
28	.00000	.30000-01	5.0000	.2302	.1910	.2172	.1066-01	.8840-02	.1006-01	7.056	38.96	561.4
28	.00000	.40000-01	6.0000	.1804	.1500	.1728	.8353-02	.6944-02	.7999-02	5.597	31.02	553.5
28	.00000	.50000-01	7.0000	.1651	.1369	.1596	.7644-02	.6338-02	.7391-02	5.042	33.70	564.0
28	.00000	.60000-01	8.0000	.1628	.1351	.1585	.7535-02	.6255-02	.7340-02	5.006	31.62	559.2
28	.00000	.70000-01	9.0000	.1356	.1125	.1330	.6277-02	.5208-02	.6159-02	4.160	28.72	560.8
28	.00000	.80000-01	10.000	.1073	.8920-01	.1058	.4967-02	.4128-02	.4900-02	3.322	23.00	554.8
28	.00000	.90000-01	11.000	.9900-01	.8230-01	.9800-01	.4582-02	.3812-02	.4538-02	3.085	19.58	550.2
28	.00000	.10000+00	12.000	.8770-01	.7290-01	.8710-01	.4058-02	.3377-02	.4034-02	2.735	16.42	549.5
28	.00000	.12000	14.000	.8050-01	.6710-01	.8040-01	.3728-02	.3105-02	.3724-02	2.526	14.05	546.1
28	.00000	.13000	15.000	.6670-01	.5550-01	.6670-01	.3087-02	.2569-02	.3089-02	2.084	12.19	548.6
28	.00000	.14000	16.000	.6420-01	.5340-01	.6430-01	.2970-02	.2473-02	.2975-02	2.006	12.74	548.2
28	.00000	.16000	18.000	.6500-01	.5410-01	.6520-01	.3008-02	.2503-02	.3020-02	2.028	12.51	549.5
28	.00000	.17000	19.000	.6330-01	.5260-01	.6360-01	.2929-02	.2437-02	.2944-02	1.971	12.51	550.5

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AM) BTU/ R FT2SEC	COOT BTU/ R FT2SEC	DTHOT DEG. R /SEC	TH DEG. R
28	.00000	.18000	20.000	.6120-01	.5090-01	.6150-01	.2832-02	.2355-02	.2848-02	1.904	12.08	551.1
28	.00000	.19000	21.000	.5780-01	.4810-01	.5820-01	.2677-02	.2228-02	.2696-02	1.805	11.46	549.3
28	.00000	.20000	22.000	.5920-01	.4920-01	.5970-01	.2740-02	.2280-02	.2763-02	1.843	11.69	551.1
28	.00000	.22500	23.000	.5510-01	.380-01	.5570-01	.2550-02	.2122-02	.2577-02	1.716	10.88	550.8
28	.00000	.25000	801.00	.5130-01	.4270-01	.5200-01	.2377-02	.1977-02	.2406-02	1.598	10.13	551.3
28	.00000	.30000	802.00	.4800-01	.3390-01	.4860-01	.2222-02	.1847-02	.2249-02	1.491	9.452	552.3
28	.00000	.35000	803.00	.4740-01	.3340-01	.4870-01	.2195-02	.1824-02	.2223-02	1.466	9.273	556.1
28	.00000	.40000	804.00	.4610-01	.3830-01	.4660-01	.2133-02	.1771-02	.2159-02	1.420	9.242	557.8
28	.00000	.45000	805.00	.4020-01	.330-01	.4070-01	.1859-02	.1543-02	.1882-02	1.231	8.242	561.1
28	.00000	.50000	806.00	.3580-01	.2970-01	.3620-01	.1656-02	.1373-02	.1677-02	1.092	7.526	564.2
28	.00000	.55000	307.00	.3470-01	.2880-01	.3520-01	.1697-02	.1331-02	.1627-02	1.054	7.730	568.1
28	.00000	.60000	808.00	.3040-01	.2520-01	.3080-01	.1408-02	.1166-02	.1426-02	.9220	6.762	568.9
28	.00000	.65000	809.00	.2730-01	.2260-01	.2760-01	.1264-02	.1046-02	.1279-02	.8240	6.038	571.2
28	.00000	.70000	810.00	.2610-01	.2160-01	.2640-01	.1208-02	.9992-03	.1223-02	.7850	5.956	572.5
28	.00000	.75000	811.00	.2810-01	.2320-01	.2850-01	.1301-02	.1076-02	.1317-02	.8460	6.194	573.0
28	.00000	.80000	812.00	.3530-01	.2920-01	.3580-01	.1636-02	.1353-02	.1657-02	1.064	7.786	573.2
28	.00000	.85000	813.00	.3840-01	.3180-01	.3930-01	.1777-02	.1470-02	.1817-02	1.157	8.767	572.2
28	.00000	.90000	814.00	.3900-01	.3230-01	.4000-01	.1807-02	.1497-02	.1851-02	1.186	8.422	567.3
28	.00000	.92500	815.00	.3230-01	.2680-01	.3310-01	.1494-02	.1238-02	.1534-02	.9840	8.030	565.3
28	.00000	.95000	816.00	.3180-01	.2630-01	.3270-01	.1470-02	.1219-02	.1513-02	.9700	7.922	564.0
28	.00000	.97500	817.00	.3370-01	.2790-01	.3480-01	.1560-02	.1294-02	.1609-02	1.030	8.415	563.5
28	.00000	1.0150	818.00	.2310-01	.1920-01	.2390-01	.1069-02	.8898-03	.1105-02	.7200	5.328	550.5
28	.00000	1.0300	819.00	.2390-01	.1930-01	.2470-01	.1108-02	.9221-03	.1144-02	.7480	5.543	548.2
28	.00000	1.0450	820.00	.2240-01	.1870-01	.2320-01	.1039-02	.8545-03	.1073-02	.7010	5.566	548.5
28	.00000	1.0600	821.00	.2050-01	.1710-01	.2120-01	.9494-03	.7903-03	.9807-03	.6410	5.376	548.5
28	.00000	1.5000	89.000	.1750-01	.1460-01	.1750-01	.8108-03	.6771-03	.8108-03	.5590	3.380	534.6
28	10.000	2.0000	91.000	.3610-01	.3010-01	.3610-01	.1671-02	.1394-02	.1671-02	1.142	7.083	540.0
28	11.500	5.0000	90.000	.7000-02	.5800-02	.7000-02	.3226-03	.2694-03	.3226-03	.2220	1.345	534.4
28	17.500	4.0000	823.00	.4850-01	.4020-01	.4910-01	.2245-02	.1861-02	.2273-02	1.480	11.65	564.5
28	17.500	5.0000	824.00	.4570-01	.3780-01	.4630-01	.2115-02	.1751-02	.2142-02	1.381	10.85	570.5
28	17.500	6.0000	825.00	.3010-01	.2490-01	.3040-01	.1392-02	.1151-02	.1409-02	.9050	7.952	572.9
28	17.500	7.0000	826.00	.3320-01	.2750-01	.3360-01	.1538-02	.1271-02	.1557-02	.9970	7.293	574.8
28	17.500	8.0000	827.00	.3750-01	.3140-01	.3840-01	.1756-02	.1453-02	.1778-02	1.143	8.368	572.6
28	17.500	9.0000	828.00	.3140-01	.2600-01	.3220-01	.1453-02	.1204-02	.1488-02	.9540	7.500	567.2
28	17.500	9.5000	829.00	.2690-01	.2240-01	.2770-01	.1248-02	.1035-02	.1283-02	.8250	7.289	561.9
28	20.000	10.000+00	103.00	.1492	.1237	.1492	.6895-02	.5713-02	.6895-02	.8250	26.10	560.6
29	20.000	15.000	104.00	.8360-01	.6940-01	.8360-01	.3861-02	.3205-02	.3861-02	2.536	16.05	554.7
28	20.000	92500	971.00	.5580-01	.4620-01	.5580-01	.2585-02	.2139-02	.2585-02	1.688	12.37	570.5
28	20.000	95000	975.00	.6220-01	.5150-01	.6220-01	.2881-02	.2385-02	.2881-02	1.884	13.81	569.7
28	20.000	97500	980.00	.6200-01	.5140-01	.6200-01	.2869-02	.2380-02	.2869-02	1.897	13.96	562.3
29	22.000	50000-01	105.00	.2200	.1820	.2200	.1017-01	.8410-02	.1017-01	6.559	36.12	566.4
28	24.000	20000	33.000	.5240-01	.4370-01	.5240-01	.2425-02	.2022-02	.2425-02	1.654	10.25	541.7
29	24.500	10000+00	106.00	.1662	.1375	.1662	.7677-02	.6353-02	.7677-02	4.960	31.23	565.6

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9T0) BTU/R FT2SEC	H(10T) BTU/R FT2SEC	H(11T) BTU/R FT2SEC	ODOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TH DEG. R
29	25.500	.15000	107.00	.9300-01	.8200-01	.9930-01	.4575-02	.3789-02	.4575-02	2.957	26.19	563.1
28	30.000	.92500	970.00	.4980-01	.4130-01	.4980-01	.2307-02	.1913-02	.2307-02	1.525	11.22	562.5
28	30.000	.95000	974.00	.5760-01	.4770-01	.5760-01	.2667-02	.2210-02	.2667-02	1.754	12.89	565.7
28	30.000	.97500	979.00	.3100-01	.2580-01	.3100-01	.1436-02	.1195-02	.1436-02	.9680	7.172	549.1
29	31.500	.20000	108.00	.6530-01	.5410-01	.6530-01	.3017-02	.2501-02	.3017-02	1.971	19.81	558.4
28	32.000	.40000	831.00	.7100-01	.5880-01	.7100-01	.3285-02	.2723-02	.3285-02	2.164	14.91	564.7
28	32.000	.50000	832.00	.5930-01	.4910-01	.5930-01	.2744-02	.2271-02	.2744-02	1.789	12.68	571.6
28	32.000	.60000	833.00	.5230-01	.4320-01	.5230-01	.2419-02	.2000-02	.2419-02	1.570	10.44	574.5
28	32.000	.70000	834.00	.4340-01	.3590-01	.4340-01	.2011-02	.1663-02	.2011-02	1.306	9.884	574.1
28	32.000	.80000	835.00	.3450-01	.2860-01	.3450-01	.1598-02	.1323-02	.1598-02	1.044	7.402	570.4
28	32.000	.90000	836.00	.2870-01	.2380-01	.2870-01	.1328-02	.1102-02	.1328-02	.8770	6.448	563.5
28	32.000	.95000	837.00	.3500-01	.2900-01	.3500-01	.1620-02	.1300-02	.1620-02	1.073	8.175	560.9
28	32.000	.97500	838.00	.3380-01	.2810-01	.3380-01	.1565-02	.1300-02	.1565-02	1.042	8.229	558.1
28	32.000	1.0150	839.00	.1810-01	.1510-01	.1810-01	.8373-03	.6969-03	.8373-03	.5650	4.567	548.7
28	32.000	1.0300	840.00	.2040-01	.1700-01	.2040-01	.9428-03	.7851-03	.9428-03	.6380	4.983	546.6
28	32.000	1.0450	841.00	.1980-01	.1650-01	.1980-01	.9173-03	.7640-03	.9173-03	.6210	4.767	546.3
28	32.000	1.0600	842.00	.1810-01	.1510-01	.1810-01	.8400-03	.6997-03	.8400-03	.5700	4.698	545.3
29	35.000	.50000-01	115.00	.1502	.1244	.1502	.6938-02	.5747-02	.6938-02	4.508	28.44	561.9
29	35.000	.20000	110.00	.7620-01	.6310-01	.7620-01	.3521-02	.2916-02	.3521-02	2.283	22.90	563.2
29	39.000	.10000+00	116.00	.1117	.9270-01	.1117	.5163-02	.4285-02	.5163-02	3.392	21.48	554.7
29	40.000	.76000-01	121.00	.8240-01	.6850-01	.8240-01	.3809-02	.3163-02	.3809-02	2.513	15.93	551.8
29	40.000	.15000	111.00	.1413	.1168	.1413	.6529-02	.5397-02	.6529-02	4.191	30.73	569.7
29	40.000	.20000	112.00	.7470-01	.6180-01	.7470-01	.3454-02	.2858-02	.3454-02	2.229	24.56	566.1
29	42.500	.50000-01	127.00	.1125	.9330-01	.1125	.5198-02	.4311-02	.5198-02	3.403	22.83	556.9
29	45.000	.15000	117.00	.8850-01	.7350-01	.8850-01	.4091-02	.3397-02	.4091-02	2.699	15.76	551.8
28	45.000	.92500	969.00	.8900-02	.7400-02	.8900-02	.4128-03	.3439-03	.4128-03	.2800	2.081	544.4
28	45.000	.95000	973.00	.3800-02	.3200-02	.3800-02	.1771-03	.1475-03	.1771-03	.1200	.8910	545.7
28	45.000	.97500	978.00	.6500-02	.5400-02	.6500-02	.3027-03	.2522-03	.3027-03	.2050	1.523	545.4
29	51.000	.20000	118.00	.4620-01	.3840-01	.4620-01	.2134-02	.1776-02	.2134-02	1.423	9.053	545.0
29	60.000	.50000-01	131.00	.6060-01	.5040-01	.6060-01	.2802-02	.2330-02	.2802-02	1.861	12.54	547.5
29	67.500	.20000	128.00	.2960-01	.2470-01	.2960-01	.1369-02	.1140-02	.1369-02	.9150	6.795	543.5
28	75.000	.97500	977.00	.4800-02	.4000-02	.4800-02	.2332-03	.1859-03	.2332-03	.1510	1.124	545.1
28	85.000	.97500	976.00	.6700-02	.5600-02	.6700-02	.3101-03	.2584-03	.3101-03	.2110	1.563	544.8
29	105.00	.40100	135.00	.1180-01	.9800-02	.1180-01	.5435-03	.4526-03	.5435-03	.3640	2.816	541.2
29	105.00	.50100	136.00	.1970-01	.1640-01	.1970-01	.9088-03	.7558-03	.9088-03	.6040	4.801	546.6
29	105.00	.50100	137.00	.2640-01	.2190-01	.2640-01	.1220-02	.1013-02	.1220-02	.8070	6.395	550.1
29	105.00	.70100	138.00	.4910-01	.4070-01	.4910-01	.2267-02	.1892-02	.2267-02	1.490	11.78	554.4
29	105.00	.80000	139.00	.2380-01	.1980-01	.2380-01	.1100-02	.9146-03	.1100-02	.7310	5.806	546.9
29	113.00	.60100	146.00	.2130-01	.1770-01	.2130-01	.9838-03	.8179-03	.9838-03	.6530	5.185	547.7
29	116.00	.60100	147.00	.2190-01	.1820-01	.2190-01	.1010-02	.8397-03	.1010-02	.6700	5.316	548.4
29	116.00	.75100	148.00	.2820-01	.2310-01	.2820-01	.1305-02	.1085-02	.1305-02	.8650	6.878	547.7
29	120.00	.10000+00	132.00	.2100-01	.1750-01	.2100-01	.9726-03	.8103-03	.9726-03	.6540	3.945	539.6
29	120.00	.80500	247.00	.1285	.1063	.1285	.5940-02	.4911-02	.5940-02	3.817	30.88	568.9

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	W/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAX)	H(970) BTU/R FT2SEC	H(10) BTU/R FT2SEC	H(TAX) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTROT DEG/R /SEC	TH DEG/R
29	120.00	.82900	248.00	.7840-01	.6500-01	.7840-01	.3622-02	.3005-02	.3622-02	2.376	19.37	555.7
29	120.00	.86200	249.00	.4740-01	.3950-01	.4740-01	.2192-02	.1823-02	.2192-02	1.458	10.59	546.4
29	130.00	.80500	253.00	.1038	.8600-01	.1038	.4795-02	.3972-02	.4795-02	3.117	24.54	561.5
29	130.00	.82900	254.00	.6340-01	.5260-01	.6340-01	.2928-02	.2432-02	.2928-02	1.932	14.83	551.9
29	130.00	.86200	255.00	.2940-01	.2450-01	.2940-01	.1359-02	.1132-02	.1359-02	.9090	7.466	543.2
29	130.00	.96300	256.00	.8700-02	.7300-02	.8700-02	.4028-03	.3362-03	.4028-03	.2740	2.507	532.0
29	135.00	.40100	142.00	.1000-02	.9000-03	.1000-02	.4797-04	.4000-04	.4797-04	.3200-01	.2510	535.5
29	135.00	.50100	143.00	.2100-02	.1800-02	.2100-02	.9765-04	.8137-04	.9765-04	.6600-01	.5410	538.8
29	135.00	.60100	144.00	.5400-02	.4500-02	.5400-02	.2473-03	.2059-03	.2473-03	.1660	1.280	541.5
29	135.00	.70100	145.00	.6500-02	.5400-02	.6500-02	.2934-03	.2493-03	.2934-03	.2010	1.600	540.9
29	140.00	.18000	85.000	.1080-01	.9000-02	.1080-01	.4985-03	.4152-03	.4985-03	.3340	2.573	540.7
29	140.00	.19500	87.000	.2250-01	.1870-01	.2250-01	.1038-02	.8646-03	.1038-02	.6960	5.357	540.9
29	145.00	.80500	259.00	.6440-01	.5350-01	.6440-01	.2976-02	.2472-02	.2976-02	1.962	15.05	552.6
30	145.00	.82900	260.00	.2810-01	.2340-01	.2810-01	.1296-02	.1077-02	.1296-02	.8500	6.363	543.9
29	150.00	.16000	86.000	.2270-01	.1890-01	.2270-01	.1048-02	.8726-03	.1048-02	.7020	5.217	542.0
29	150.00	.18000	84.000	.5380-01	.4480-01	.5380-01	.2488-02	.2068-02	.2488-02	1.649	12.22	548.5
29	150.00	.19000	82.000	.7030-03	.6000-03	.7030-03	.3321-04	.2767-04	.3321-04	.2200-01	.1660	539.1
29	155.00	.16000	80.000	.1930-01	.1660-01	.1930-01	.9168-03	.7652-03	.9168-03	.6160	4.584	540.8
29	160.00	.18000	77.000	.8600-01	.7130-01	.8600-01	.3975-02	.3296-02	.3975-02	2.598	20.53	558.0
29	160.00	.15000	81.000	.1750-01	.1450-01	.1750-01	.8090-03	.6738-03	.8090-03	.5430	3.906	540.9
29	175.00	.16500	79.000	.5400-01	.4490-01	.5400-01	.2494-02	.2073-02	.2494-02	1.651	12.23	549.6
29	175.00	.17500	78.000	.8140-01	.6760-01	.8140-01	.3762-02	.3123-02	.3762-02	2.474	17.69	554.0
28	180.00	.10000-01	59.000	.2651	.2190	.2651	.1227-01	.1014-01	.1227-01	7.932	57.93	577.2
28	180.00	.25000-01	60.000	.9020-01	.7510-01	.9020-01	.4174-02	.3476-02	.4174-02	2.830	20.32	545.6
28	180.00	.50000-01	61.000	.4170-01	.3480-01	.4170-01	.1930-02	.1610-02	.1930-02	1.324	8.453	537.6
28	180.00	.75000-01	62.000	.2030-01	.1700-01	.2030-01	.9420-03	.7857-03	.9420-03	.6490	4.149	534.8
28	180.00	.10000+00	63.000	.1260-01	.1050-01	.1260-01	.5824-03	.4864-03	.5824-03	.4010	2.643	534.4
28	180.00	.12500	64.000	.7600-02	.6300-02	.7600-02	.2939-03	.2248-03	.2939-03	.2430	1.697	534.3
28	180.00	.15000	65.000	.5800-02	.4900-02	.5800-02	.2692-03	.2248-03	.2692-03	.1860	1.298	534.3
28	180.00	.16000	66.000	.2610-01	.2180-01	.2610-01	.1209-02	.1009-02	.1209-02	.8280	4.624	538.7
28	180.00	.17000	67.000	.6180-01	.5140-01	.6180-01	.2860-02	.2382-02	.2860-02	1.937	10.77	546.3
28	180.00	.20000	69.000	.1620-01	.1360-01	.1620-01	.7516-03	.6273-03	.7516-03	.5160	3.204	537.0
28	180.00	.40100	72.000	.1310-01	.1100-01	.1310-01	.6081-03	.5073-03	.6081-03	.4160	3.540	539.4
28	180.00	.50000	73.000	.1540-01	.1280-01	.1540-01	.7112-03	.5930-03	.7112-03	.4850	4.121	541.7
28	180.00	.60100	74.000	.1440-01	.1200-01	.1440-01	.6656-03	.5556-03	.6656-03	.4530	3.726	543.2
28	180.00	.70100	75.000	.8100-02	.6700-02	.8100-02	.3729-03	.3109-03	.3729-03	.2540	2.027	541.2

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V413-57A (OH-498) COLLATION DECK

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(RV1801)

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPDRBK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.5 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
1	8.000	3.780	19.99	.0000	180.0	863.4	.8800-01	1339.	97.00	3.962	3861.	.7647-04
2	8.000	3.783	19.99	.0000	180.0	861.7	.8800-01	1337.	96.90	3.954	3858.	.7646-04
3	8.000	3.786	19.99	.0000	180.0	864.5	.8900-01	1343.	97.40	3.967	3868.	.7632-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	ST FR R =
1	.7812-07	.4914-01	0.0175
2	.7798-07	.4907-01	.2091-01
3	.7838-07	.4920-01	.2094-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	P/HREF R=1.0	H/HREF (TAN)	H(19T) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AM) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTADT DEG. R /SEC	TW DEG. R
1	.00000	.00000	1.0000	.9175	.7356	.7538	.4508-01	.3614-01	.3704-01	24.41	128.2	663.8
1	.00000	.50000-02	2.0000	.7440	.5971	.6119	.3656-01	.2934-01	.3007-01	19.90	130.8	660.8
1	.00000	.10000-01	3.0000	.5645	.4580	.4898	.2774-01	.2250-01	.2407-01	15.96	103.3	629.7
1	.00000	.30000-01	5.0000	.2270	.1875	.2139	.1115-01	.9212-02	.1051-01	7.081	38.92	570.3
1	.00000	.40000-01	6.0000	.1886	.1560	.1804	.9268-02	.7566-02	.8863-02	5.938	32.73	564.5
1	.00000	.50000-01	7.0000	.1659	.1369	.1602	.8150-02	.6727-02	.7873-02	5.156	34.31	572.5
1	.00000	.60000-01	8.0000	.1598	.1321	.1555	.7852-02	.6489-02	.7643-02	5.007	31.49	567.5
1	.00000	.70000-01	9.0000	.1344	.1110	.1318	.6602-02	.5454-02	.6474-02	4.200	28.88	569.0
1	.00000	.80000-01	10.000	.1049	.8680-01	.1035	.5156-02	.4267-02	.5085-02	3.314	22.86	562.4
1	.00000	.90000-01	11.000	.9650-01	.8000-01	.9500-01	.4747-02	.3933-02	.4700-02	3.073	19.42	557.8
1	.00000	.10000+00	12.000	.8650-01	.7170-01	.8600-01	.4250-02	.3523-02	.4224-02	2.756	16.48	556.8
1	.00000	.12000	14.000	.7490-01	.6210-01	.7480-01	.3680-02	.3052-02	.3616-02	2.395	13.27	554.3
1	.00000	.13000	15.000	.6990-01	.5800-01	.6990-01	.3435-02	.2848-02	.3437-02	2.231	13.00	555.8
1	.00000	.14000	16.000	.6320-01	.5240-01	.6330-01	.3103-02	.2574-02	.3109-02	2.018	12.78	554.8
1	.00000	.16000	18.000	.6400-01	.5310-01	.6430-01	.3146-02	.2606-02	.3158-02	2.042	12.56	555.9
1	.00000	.17000	19.000	.6240-01	.5170-01	.6270-01	.3068-02	.2543-02	.3083-02	1.989	12.58	556.7
1	.00000	.18000	20.000	.6100-01	.5060-01	.6140-01	.2998-02	.2485-02	.3015-02	1.944	12.29	556.7

## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1(5TO) BTU/ R F12SEC	H1(TO) BTU/ R F12SEC	H1(TAW) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTMDT DEG. R /SEC	TW DEG. R
1	.00000	.19000	21.000	.5870-01	.4870-01	.5910-01	.2886-02	.2393-02	.2906-02	1.877	11.88	554.7
1	.00000	.20000	22.000	.5840-01	.4850-01	.5890-01	.2872-02	.2381-02	.2896-02	1.864	11.79	556.0
1	.00000	.22500	23.000	.5210-01	.4320-01	.5270-01	.2560-02	.2123-02	37-02	1.665	10.54	554.8
1	.00000	.25000	801.00	.5050-01	.4180-01	.5110-01	.2479-02	.2056-02	10-02	1.612	10.21	554.7
1	.00000	.30000	802.00	.4570-01	.3790-01	.4630-01	.2247-02	.1864-02	.2275-02	1.462	9.257	554.6
1	.00000	.35000	803.00	.4640-01	.3840-01	.4700-01	.2279-02	.1889-02	.2307-02	1.478	9.351	556.5
1	.00000	.40000	804.00	.4450-01	.3630-01	.4500-01	.2185-02	.1812-02	.2212-02	1.420	9.253	555.3
1	.00000	.45000	805.00	.4400-01	.3330-01	.4070-01	.1975-02	.1637-02	.1999-02	1.283	8.611	555.5
1	.00000	.50000	806.00	.3520-01	.3000-01	.3670-01	.1781-02	.1476-02	.1807-02	1.155	7.989	556.7
1	.00000	.55000	807.00	.3520-01	.2920-01	.3560-01	.1729-02	.1433-02	.1750-02	1.120	8.257	557.6
1	.00000	.60000	808.00	.3130-01	.2600-01	.3170-01	.1540-02	.1276-02	.1559-02	.9960	7.346	558.1
1	.00000	.65000	809.00	.2790-01	.2310-01	.2830-01	.1372-02	.1136-02	.1389-02	.8860	6.529	559.4
1	.00000	.70000	810.00	.2790-01	.2310-01	.2830-01	.1372-02	.1136-02	.1389-02	.8860	6.529	559.4
1	.00000	.75000	811.00	.2940-01	.2430-01	.2970-01	.1443-02	.1195-02	.1461-02	.8930	6.835	561.8
1	.00000	.80000	812.00	.4250-01	.3520-01	.4310-01	.2090-02	.1730-02	.2117-02	.9290	9.882	562.5
1	.00000	.85000	813.00	.4790-01	.3970-01	.4900-01	.2356-02	.1949-02	.2409-02	1.511	11.50	563.6
1	.00000	.90000	814.00	.5110-01	.4230-01	.5240-01	.2513-02	.2080-02	.2574-02	1.619	11.54	560.9
1	.00000	.92500	815.00	.4280-01	.3550-01	.4400-01	.2105-02	.1743-02	.2161-02	1.360	11.13	559.1
1	.00000	.95000	816.00	.4450-01	.3680-01	.4580-01	.2185-02	.1810-02	.2249-02	1.410	11.54	559.8
1	.00000	.97500	817.00	.4790-01	.3960-01	.4940-01	.2353-02	.1948-02	.2427-02	1.513	12.38	562.0
1	.00000	1.0150	818.00	.3090-01	.2560-01	.3190-01	.1518-02	.1259-02	.1569-02	.9900	7.315	553.3
1	.00000	1.0300	819.00	.3240-01	.2690-01	.3350-01	.1593-02	.1322-02	.1646-02	1.040	7.690	552.2
1	.00000	1.0450	820.00	.3030-01	.2560-01	.3190-01	.1517-02	.1258-02	.1568-02	.9880	7.824	553.6
1	.00000	1.0600	821.00	.2710-01	.2250-01	.2800-01	.1332-02	.1105-02	.1377-02	.8680	7.260	553.6
1	.00000	1.0800	822.00	.1760-01	.1460-01	.1760-01	.8656-03	.7198-03	.8656-03	.5720	3.446	544.0
1	.00000	1.1000	89.000	.3840-01	.3190-01	.3840-01	.1888-02	.1569-02	.1888-02	1.243	7.685	546.6
1	.00000	1.1200	91.000	.1070-01	.8900-02	.1070-01	.5269-03	.4383-03	.5269-03	.3490	2.102	543.0
1	.00000	1.1400	823.00	.4860-01	.4020-01	.4920-01	.2387-02	.1975-02	.2417-02	1.533	12.09	562.8
1	.00000	1.1600	824.00	.4560-01	.3770-01	.4620-01	.2241-02	.1854-02	.2261-02	1.438	11.33	563.5
1	.00000	1.1800	825.00	.3000-01	.2480-01	.3000-01	.1475-02	.1221-02	.1452-02	.9480	8.375	562.1
1	.00000	1.2000	826.00	.3490-01	.2890-01	.3530-01	.1714-02	.1418-02	.1736-02	1.097	8.065	565.0
1	.00000	1.2200	827.00	.4280-01	.3540-01	.4330-01	.2102-02	.1739-02	.2128-02	1.348	9.909	563.9
1	.00000	1.2400	828.00	.3960-01	.3230-01	.4050-01	.1944-02	.1609-02	.1991-02	1.252	9.878	561.0
1	.00000	1.2600	829.00	.3450-01	.2860-01	.3550-01	.1696-02	.1405-02	.1745-02	1.096	9.693	558.8
2	.00000+00	1.2800	103.00	.1486	.1231	.1486	.7293-02	.6042-02	.7293-02	4.709	27.42	557.3
2	.00000	1.3000	104.00	.8410-01	.6990-01	.8410-01	.4128-02	.3430-02	.4128-02	2.708	17.21	546.9
1	.00000	1.3200	971.00	.5800-01	.4790-01	.5800-01	.2850-02	.2355-02	.2850-02	1.814	13.30	568.9
1	.00000	1.3400	975.00	.6550-01	.5410-01	.6550-01	.3217-02	.2657-02	.3217-02	2.045	15.00	569.4
1	.00000	1.3600	980.00	.6300-01	.5210-01	.6300-01	.3097-02	.2561-02	.3097-02	1.981	14.55	565.5
2	.00000-01	1.3800	105.00	.2179	.1801	.2179	.1069-01	.8837-02	.1069-01	6.807	37.49	566.3
1	.00000	1.4000	93.000	.5610-01	.4660-01	.5610-01	.2756-02	.2288-02	.2756-02	1.804	11.13	550.5
2	.00000+00	1.4200	105.00	.1651	.1366	.1651	.8102-02	.6702-02	.8102-02	5.186	32.69	563.0
2	.00000	1.4400	107.00	.9810-01	.8130-01	.9810-01	.4815-02	.3989-02	.4815-02	3.106	27.49	557.9



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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1801)

RUN NUMBER	THETA	X/L	T/C NO	H/WREF R=0.9	H/WREF R=1.0	H/WREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
1	30.000	.92500	970.00	.5170-01	.4280-01	.5170-01	.2540-02	.2103-02	.2540-02	1.636	12.05	560.8
1	30.000	.95000	974.00	.6000-01	.4960-01	.6000-01	.2946-02	.2436-02	.2946-02	1.885	13.85	563.4
1	30.000	.97500	979.00	.3460-01	.2870-01	.3460-01	.1700-02	.1411-02	.1700-02	1.110	8.209	552.2
2	31.500	.20000	108.00	.6540-01	.5430-01	.6540-01	.3209-02	.2663-02	.3209-02	2.093	21.13	550.6
1	32.000	.40000	831.00	.7170-01	.5930-01	.7170-01	.3523-02	.2915-02	.3523-02	2.261	15.59	562.4
1	32.000	.50000	832.00	.5790-01	.4790-01	.5790-01	.2847-02	.2354-02	.2847-02	1.821	12.95	565.3
1	32.000	.60000	833.00	.4990-01	.4130-01	.4990-01	.2451-02	.2027-02	.2451-02	1.568	10.47	565.5
1	32.000	.70000	834.00	.4180-01	.3450-01	.4180-01	.2053-02	.1697-02	.2053-02	1.313	9.981	565.4
1	32.000	.80000	835.00	.3550-01	.2930-01	.3550-01	.1742-02	.1441-02	.1742-02	1.117	7.948	564.0
1	32.000	.90000	836.00	.3180-01	.2630-01	.3180-01	.1564-02	.1295-02	.1564-02	1.008	7.423	560.5
1	32.000	.95000	837.00	.3850-01	.3190-01	.3850-01	.1891-02	.1566-02	.1891-02	1.220	9.301	559.7
1	32.000	.97500	838.00	.3770-01	.3130-01	.3770-01	.1855-02	.1536-02	.1855-02	1.199	9.465	558.9
1	32.000	1.01500	839.00	.2170-01	.1800-01	.2170-01	.1065-02	.8835-03	.1065-02	6.940	5.591	554.0
1	32.000	1.03500	840.00	.2340-01	.1940-01	.2340-01	.1149-02	.9527-03	.1146-02	7.490	5.823	553.4
1	32.000	1.04500	841.00	.2320-01	.1930-01	.2320-01	.1140-02	.9462-03	.1138-02	7.440	5.689	552.9
1	32.000	1.06000	842.00	.1820-01	.1510-01	.1820-01	.8944-03	.7422-03	.8926-03	5.840	4.802	551.9
2	35.700	.50000-01	115.00	.1480	.1225	.1480	.7264-02	.6011-02	.7264-02	4.660	29.40	561.5
2	35.000	.20000	110.00	.7550-01	.6270-01	.7550-01	.3709-02	.3075-02	.3709-02	2.403	24.20	554.9
2	39.000	.10000+00	116.00	.090	.9040-01	.1090	.5347-02	.4436-02	.5347-02	3.482	22.08	551.8
2	40.000	.76000-01	121.00	.3200-01	.6810-01	.8200-01	.6792-02	.3342-02	.6792-02	4.634	16.73	548.4
2	40.000	.15000	111.00	.1384	.1144	.1384	.6923-02	.5614-02	.6923-02	4.328	31.79	565.7
2	40.000	.20000	112.00	.7540-01	.6240-01	.7540-01	.3699-02	.3063-02	.3699-02	2.380	26.31	559.4
2	42.500	.50000-01	127.00	.1121	.9290-01	.1121	.5499-02	.4557-02	.5499-02	3.554	23.84	556.7
2	45.000	.15000	117.00	.8840-01	.7350-01	.8840-01	.4340-02	.3607-02	.4340-02	2.856	16.74	544.7
1	45.000	.92500	969.00	.9300-02	.7700-02	.9300-02	.4563-03	.3796-03	.4563-03	3.030	2.249	542.1
1	45.000	.95000	973.00	.4900-02	.4100-02	.4900-02	.2431-03	.2022-03	.2431-03	1.610	1.200	541.4
1	45.000	.97500	978.00	.8200-02	.6800-02	.8200-02	.4028-03	.3351-03	.4028-03	2.670	1.983	542.6
2	51.000	.20000	118.00	.4700-01	.3920-01	.4700-01	.2308-02	.1922-02	.2308-02	1.534	9.793	538.3
2	60.000	.50000-01	131.00	.6010-01	.4990-01	.6010-01	.2947-02	.2448-02	.2947-02	1.932	13.02	547.3
2	67.500	.20000	128.00	.2910-01	.2420-01	.2910-01	.1428-02	.1168-02	.1428-02	9.480	7.057	539.0
1	75.000	.97500	977.00	.4900-02	.4100-02	.4900-02	.2428-03	.2020-03	.2428-03	1.610	1.198	541.7
1	85.000	.40100	976.00	.7300-02	.6100-02	.7300-02	.3578-03	.2977-03	.3578-03	3.2370	1.763	542.2
2	105.00	.13500	135.00	.1240-01	.1030-01	.1240-01	.6093-03	.5071-03	.6093-03	4.040	3.127	539.5
2	105.00	.50100	36.00	.1860-01	.1550-01	.1860-01	.9140-03	.7601-03	.9140-03	6.030	4.803	542.8
2	105.00	.60100	137.00	.2530-01	.2100-01	.2530-01	.1241-02	.1031-02	.1241-02	8.160	6.483	545.7
2	105.00	.70100	138.00	.3670-01	.3210-01	.3670-01	.1899-02	.1577-02	.1899-02	1.242	9.948	549.1
2	105.00	.80000	139.00	.2800-01	.2330-01	.2800-01	.1375-02	.1142-02	.1375-02	9.010	7.150	548.0
2	113.00	.60100	146.00	.2090-01	.1740-01	.2090-01	.1026-02	.8532-03	.1026-02	6.760	5.377	544.3
2	116.00	.60100	147.00	.2100-01	.1750-01	.2100-01	.1030-02	.8564-03	.1030-02	6.780	5.391	545.0
2	116.00	.75100	148.00	.2430-01	.2010-01	.2430-01	.1191-02	.9887-03	.1191-02	7.790	6.185	548.2
2	120.00	.10000+00	132.00	.2020-01	.1680-01	.2020-01	.9924-03	.8263-03	.9924-03	4.600	3.904	538.1
2	120.00	.80500	247.00	.1338	.1103	.1338	.6566-02	.5415-02	.6566-02	4.129	33.30	574.0
2	120.00	.82900	248.00	.8000-01	.6630-01	.8000-01	.3928-02	.3252-02	.3928-02	2.525	20.53	560.2

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(RV1801)

OP-9B (AEDC V41B-57A) OR 11ER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H <sub>1</sub> REF P=0.9	H/HREF R=1.0	H/HREF (TAW)	H19T0 STU/ R FT2SEC	H1T0 BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
2	120.00	.86200	249.00	5100-01	.4230-01	.5100-01	.2500-02	.2075-02	.2500-02	1.628	11.79	551.8
2	130.00	.80500	252.00	.1035	.8540-01	.1035	.5070-02	.191-02	.5070-02	3.231	25.37	565.6
2	130.00	.82900	254.00	.6250-01	.5180-01	.6250-01	.3069-02	.2543-02	.3069-02	1.385	15.20	556.2
2	130.00	.86200	255.00	.2920-01	.240-01	.2920-01	.1433-02	.1100-02	.1433-02	.9390	7.688	548.2
2	135.00	.96300	256.00	.1000-01	.8400-02	.1000-01	.4928-02	.4099-03	.4928-03	.3260	2.967	541.6
2	135.00	.40100	142.00	.7000-02	.6000-03	.7000-02	.3400-04	.2832-04	.3400-04	.2300-01	.1750	536.8
2	135.00	.50100	143.00	.2700-02	.2200-02	.2700-02	.320-03	.1099-03	.320-03	.8800-01	.7240	537.9
2	135.00	.60100	144.00	.5900-02	.4900-02	.5900-02	.2911-03	.2423-03	.2911-03	.1930	1.496	538.9
2	135.00	.0100	145.00	.5300-02	.4900-02	.5300-02	.2915-03	.2426-03	.2915-03	.1930	1.541	540.1
2	140.00	.18000	85.000	.2230-01	.1850-01	.2230-01	.1093-02	.9798-03	.1093-02	5.571	5.571	540.8
2	140.00	.19500	87.000	.2490-01	.2070-01	.2490-01	.712-02	.1016-02	.1222-02	6.185	6.185	544.0
2	145.00	.80500	259.00	.6690-01	.5540-01	.6690-01	.3483-02	.2720-02	.3283-02	2.121	16.23	556.9
3	145.00	.82900	260.00	.2770-01	.2300-01	.2770-01	.1363-02	.1134-02	.1363-02	.9060	6.180	544.6
3	145.00	.16000	86.000	.4500-02	.3700-02	.4500-02	.2201-03	.1833-03	.2201-03	.1470	1.215	538.9
2	150.00	.18000	84.000	.5880-01	.4870-01	.5880-01	.2883-02	.2392-02	.2883-02	1.876	13.87	552.3
2	150.00	.19000	82.000	.1200-02	.1000-02	.1200-02	.1735-04	.4776-04	.5735-04	.3800-01	.2840	537.4
2	155.00	.16000	80.000	.2160-01	.1790-01	.2160-01	.1053-02	.8801-03	.1059-02	.6990	5.92	542.7
2	155.00	.18000	83.000	.6000-03	.5000-03	.6000-03	.2987-04	.2488-04	.2987-04	3.084	24.30	563.5
2	160.00	.18000	77.000	.1790-01	.8130-01	.1790-01	.4822-02	.3988-02	.4822-02	1.907	4.165	542.5
2	175.00	.15000	81.000	.5990-01	.4970-01	.5990-01	.8766-03	.7292-03	.8768-03	2.570	14.09	554.0
2	175.00	.16500	79.000	.8070-01	.7350-01	.8070-01	.4352-02	.3605-02	.4352-02	2.804	20.01	558.6
2	180.00	.17500	78.000	.2803	.2300	.2803	.1137-01	.1131-01	.1377-01	8.480	61.56	589.5
1	180.00	.10000-01	59.000	.9040-01	.7500-01	.9040-01	.4443-02	.3683-02	.4443-02	2.884	20.60	556.1
1	180.00	.25000-01	60.000	.4160-01	.3460-01	.4160-01	.2044-02	.1698-02	.2044-02	1.345	8.544	547.1
1	180.00	.75000-01	62.000	.2050-01	.1700-01	.2050-01	.1006-02	.8363-03	.1006-02	.6650	4.234	543.8
1	180.00	.10000-00	63.000	.1280-01	.1070-01	.1280-01	.6305-03	.5245-03	.6305-03	.4180	2.739	542.6
1	180.00	.12500	64.000	.7100-02	.5900-02	.7100-02	.3454-03	.2907-03	.3454-03	.2320	1.616	541.7
1	180.00	.15000	65.000	.6300-02	.5200-02	.6300-02	.3082-03	.2565-03	.3082-03	2.040	1.425	541.7
1	180.00	.16000	66.000	.2710-01	.2260-01	.2710-01	.1334-02	.1108-02	.1334-02	.8790	4.889	546.1
1	180.00	.17000	67.000	.6460-01	.5360-01	.6460-01	.3174-02	.2633-02	.3174-02	2.069	11.47	553.3
1	180.00	.20000	69.000	.1700-01	.1420-01	.1700-01	.8375-03	.6966-03	.8375-03	.5540	3.430	543.6
1	180.00	.40100	72.000	.1440-01	.1200-01	.1440-01	.7092-03	.5896-03	.7092-03	.4680	3.971	544.9
1	180.00	.50000	73.000	.1500-01	.1250-01	.1500-01	.7364-03	.6123-03	.7364-03	.4860	4.125	544.8
1	180.00	.60100	74.000	.1380-01	.1150-01	.1380-01	.6769-03	.5627-03	.6768-03	.4470	3.370	544.5
1	180.00	.70100	75.000	.7700-02	.6400-02	.7700-02	.3794-03	.3156-03	.3794-03	.2510	2.002	542.5

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKI V41B-57A (04-498) COLLATION DECK

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04-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1802)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 25.00 BE/A = .0000 ELEVTR = .0000 SPDGRK = .0000  
BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
169	7.900	.5461	25.03	.0000	180.0	129.9	.1200-01	1259.	93.40	.5330	3740.	.1097-04
170	7.900	.5426	25.03	.0000	180.0	129.8	.1200-01	1263.	93.70	.5330	3747.	.1092-04
171	7.900	.5441	25.04	.0000	180.0	110.8	.1200-01	1269.	94.10	.5380	3755.	.1098-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
169	.7517-07	.784-01	0.0175
170	.7544-07	.1784-01	.5485-01
171	.7576-07	.1793-01	.5499-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(GTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	OTWOT DEG. R /SEC	TH DEG. R
169	.00000	.00000	1.0000	.8494	.6941	.7190	.1515-01	.1238-01	.1283-01	8.535	46.93	569.6
169	.00000	.50000-02	2.0000	.7593	.6193	.6273	.1354-01	.1105-01	.1119-01	7.545	51.70	575.8
169	.00000	.10000-01	3.0000	.6048	.4949	.5132	.1079-01	.8828-02	.9261-02	6.116	40.84	565.9
169	.00000	.20000-01	4.0000	.3652	.3004	.3290	.6515-02	.5358-02	.5869-02	3.798	21.09	549.9
169	.00000	.30000-01	5.0000	.2659	.2188	.2449	.4743-02	.3904-02	.4368-02	2.775	15.43	547.8
169	.00000	.40000-01	6.0000	.2175	.1791	.2032	.3879-02	.3195-02	.3624-02	2.281	12.70	544.9
169	.00000	.50000-01	7.0000	.1971	.1621	.1860	.3515-02	.2892-02	.3318-02	2.052	13.82	549.1
169	.00000	.60000-01	8.0000	.1978	.1628	.1881	.3528-02	.2904-02	.3356-02	2.068	13.14	546.7
169	.00000	.70000-01	9.0000	.1625	.1338	.1558	.2899-02	.2386-02	.2778-02	1.698	11.80	547.1
169	.00000	.80000-01	10.0000	.1281	.1055	.1235	.2285-02	.1882-02	.2203-02	1.344	9.352	544.8
169	.00000	.90000-01	11.0000	.1247	.1027	.1207	.2224-02	.1833-02	.2153-02	1.312	8.360	542.6
169	.00000	.10000+00	12.0000	.1094	.9020-01	.1063	.1952-02	.1609-02	.1897-02	1.152	6.939	542.8
169	.00000	.12000	14.0000	.811C-01	.6690-01	.7920-01	.1446-02	.1193-02	.1413-02	.8570	4.785	540.0
169	.00000	.13000	15.0000	.9320-01	.7690-01	.9130-01	.1663-02	.1371-02	.1628-02	.9340	5.774	541.4
169	.00000	.14000	16.0000	.8460-01	.6980-01	.8290-01	.1510-02	.1245-02	.1480-02	.6930	5.696	540.9
169	.00000	.16000	18.0000	.8570-01	.7070-01	.8420-01	.1529-02	.1261-02	.1502-02	.3050	5.609	540.9
169	.00000	.17000	19.0000	.8370-01	.6910-01	.8240-01	.1494-02	.1232-02	.1469-02	.8840	5.634	541.2

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1802)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
169	.00000	.18000	20.000	.8440-01	.6960-01	.8310-01	.1505-02	.1241-02	.1482-02	.8900	5.675	541.3
169	.00000	.19000	21.000	.8500-01	.7010-01	.8380-01	.1515-02	.1250-02	.1494-02	.8990	5.734	539.8
169	.00000	.20000	22.000	.8070-01	.6650-01	.7970-01	.1440-02	.1187-02	.1421-02	.8920	5.428	541.3
169	.00000	.22500	23.000	.7560-01	.6240-01	.7480-01	.1349-02	.1112-02	.1335-02	.7980	5.090	540.9
169	.00000	.25000	801.00	.7090-01	.5840-01	.7030-01	.1264-02	.1042-02	.1253-02	.7480	4.770	540.9
169	.00000	.30000	802.00	.6380-01	.5260-01	.6320-01	.1138-02	.9383-03	.1128-02	.6730	4.289	541.5
169	.00000	.35000	803.00	.7010-01	.5780-01	.6910-01	.1250-02	.1030-02	.1240-02	.7370	4.695	543.2
169	.00000	.40000	804.00	.6720-01	.5540-01	.6670-01	.1200-02	.9835-03	.1189-02	.7070	4.634	543.4
169	.00000	.45000	805.00	.5920-01	.4880-01	.5870-01	.1055-02	.8699-03	.1047-02	.6210	4.189	545.0
169	.00000	.50000	806.00	.5530-01	.4550-01	.5480-01	.9862-03	.8121-03	.9776-03	.5790	4.028	545.7
169	.00000	.55000	807.00	.5330-01	.4380-01	.5280-01	.9502-03	.7822-03	.9419-03	.5570	4.128	547.0
169	.00000	.60000	808.00	.4930-01	.4060-01	.4890-01	.8793-03	.7237-03	.8716-03	.5150	3.817	547.3
169	.00000	.65000	809.00	.4490-01	.3700-01	.4450-01	.8011-03	.6593-03	.7941-03	.4690	3.474	547.8
169	.00000	.70000	810.00	.4350-01	.3580-01	.4310-01	.7759-03	.6386-03	.7691-03	.4540	3.483	547.6
169	.00000	.75000	811.00	.4510-01	.3720-01	.4470-01	.8051-03	.6628-03	.7981-03	.4720	3.500	546.7
169	.00000	.80000	812.00	.4620-01	.3800-01	.4580-01	.8236-03	.6782-03	.8164-03	.4840	3.569	545.7
169	.00000	.85000	813.00	.4250-01	.3500-01	.4250-01	.7572-03	.6237-03	.7588-03	.4450	3.419	544.9
169	.00000	.90000	814.00	.3950-01	.3260-01	.3970-01	.7045-03	.5807-03	.7075-03	.4160	2.992	542.4
169	.00000	.92500	815.00	.3130-01	.2580-01	.3150-01	.5590-03	.4610-03	.5628-03	.3310	2.735	540.9
169	.00000	.95000	816.00	.3000-01	.2470-01	.3030-01	.5351-03	.4414-03	.5400-03	.3170	2.624	539.8
169	.00000	.97500	817.00	.2420-01	.1930-01	.2440-01	.4309-03	.3555-03	.4359-03	.2560	2.117	539.0
169	.00000	1.0150	818.00	.1570-01	.1300-01	.1590-01	.2798-03	.2313-03	.2839-03	.1680	1.254	533.0
169	.00000	1.0300	819.00	.1700-01	.1400-01	.1720-01	.3027-03	.2503-03	.3071-03	.1820	1.359	531.8
169	.00000	1.0450	820.00	.1540-01	.1280-01	.1570-01	.2755-03	.2278-03	.2794-03	.1660	1.326	531.7
169	.00000	1.0600	821.00	.1010-01	.9400-02	.1030-01	.1804-03	.1491-03	.1830-03	.1080	.9160	532.2
169	.00000	1.0800	822.00	.1450-01	.1200-01	.1450-01	.2592-03	.2142-03	.2592-03	.1550	.9410	533.1
169	.00000	1.1000	823.00	.2010-01	.1660-01	.2010-01	.3594-03	.2970-03	.3594-03	.2150	1.340	533.6
169	.00000	1.1200	824.00	.1700-02	.1400-02	.1700-02	.1254-03	.1036-03	.1254-03	.7500-01	.4560	532.0
169	.00000	1.1400	825.00	.6640-01	.5470-01	.6500-01	.1185-02	.9757-03	.1175-02	.6950	5.528	546.0
169	.00000	1.1600	826.00	.6240-01	.5140-01	.6190-01	.1114-02	.9165-03	.1104-02	.6510	5.168	548.5
169	.00000	1.1800	827.00	.4240-01	.3490-01	.4200-01	.7569-03	.6223-03	.7498-03	.4420	3.925	549.1
169	.00000	1.2000	828.00	.5230-01	.4300-01	.5180-01	.9322-03	.7672-03	.9240-03	.5460	4.047	547.2
169	.00000	1.2200	829.00	.4650-01	.3840-01	.4520-01	.8313-03	.6845-03	.8241-03	.4880	3.620	545.9
169	.00000	1.2400	830.00	.3570-01	.2940-01	.3580-01	.6363-03	.5245-03	.6390-03	.3760	2.993	542.3
170	.00000	1.2600	103.00	.1744	.1433	.1744	.3111-02	.2567-02	.3111-02	.1854	10.89	541.0
170	.00000	1.2800	104.00	.1031	.0710-01	.1031	.1840-02	.1515-02	.1840-02	.1100	7.024	538.8
169	.00000	1.3000	371.00	.2720-01	.2250-01	.2720-01	.4859-03	.4009-03	.4859-03	.2890	2.149	538.8
169	.00000	1.3200	775.00	.4120-01	.3400-01	.4120-01	.7346-03	.6061-03	.7346-03	.4360	3.249	538.9
169	.00000	1.3400	960.00	.4050-01	.3350-01	.4050-01	.7229-03	.5971-03	.7229-03	.4320	3.221	535.5
170	.00000	1.3600	105.00	.2320	.1914	.2320	.4139-02	.3414-02	.4139-02	2.463	13.74	541.8
169	.00000	1.3800	93.300	.1770-01	.1460-01	.1770-01	.3153-03	.2606-03	.3153-03	.1890	1.177	533.1
170	.00000	1.4000	165.00	.1987	.1639	.1987	.3545-02	.2924-02	.3545-02	2.108	13.43	542.4
170	.00000	1.4200	107.00	.1200	.9900-01	.1200	.2142-02	.1767-02	.2142-02	1.275	11.38	541.4

AEDC VKF V41B-57A (OH-498) COLLATION DECK  
OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9T0) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DT/DT DEG. R /SEC	TH DEG. R
169	30.000	.92500	970.00	.1400-01	.1160-01	.1400-01	.2502-03	.2066-03	.2502-03	.1490	1.114	535.7
169	30.000	.95000	974.00	.2270-01	.1880-01	.2270-01	.4054-03	.3349-03	.4054-03	.2420	1.807	535.2
169	30.000	.97500	974.00	.1770-01	.1470-01	.1770-01	.3166-03	.2518-03	.3166-03	.1910	1.425	530.5
170	31.500	.20000	108.00	.8320-01	.6870-01	.8320-01	.1484-02	.1225-02	.1484-02	.8870	9.000	539.4
169	32.000	.40000	831.00	.8940-01	.7280-01	.8940-01	.1576-02	.1298-02	.1562-02	.9260	6.442	545.4
169	32.000	.50000	332.00	.7450-01	.6130-01	.7450-01	.1328-02	.1093-02	.1317-02	.7750	5.565	548.6
169	32.000	.60000	833.00	.6600-01	.5430-01	.6600-01	.1177-02	.9682-03	.1167-02	.6870	4.622	549.6
169	32.000	.70000	834.00	.4610-01	.3790-01	.4610-01	.8226-03	.5769-03	.8154-03	.4810	3.689	548.0
169	32.000	.80000	835.00	.4320-01	.3560-01	.4320-01	.7705-03	.6346-03	.7638-03	.4530	3.252	545.2
169	32.000	.90000	836.00	.3670-01	.3020-01	.3670-01	.6544-03	.5395-03	.6571-03	.3870	2.879	541.3
169	32.000	.95000	837.00	.3530-01	.3240-01	.3530-01	.7005-03	.5780-03	.7069-03	.4160	3.204	539.0
169	32.000	.97500	838.00	.4370-01	.3610-01	.4370-01	.7802-03	.6445-03	.7893-03	.4560	3.726	535.3
169	32.000	1.0150	839.00	.2360-01	.1960-01	.2310-01	.4218-03	.3488-03	.4119-03	.2540	2.070	531.0
169	32.000	1.0300	840.00	.2260-01	.1870-01	.2210-01	.4040-03	.3342-03	.3946-03	.2430	1.915	530.6
169	32.000	1.0450	841.00	.2280-01	.1870-01	.2210-01	.5133-03	.4247-03	.5014-03	.3100	2.395	529.8
169	32.000	1.0600	842.00	.2040-01	.1690-01	.1590-01	.3640-03	.3012-03	.3556-03	.2190	1.824	530.0
170	35.000	.50000-01	115.00	.1489	.1229	.1489	.2657-02	.2133-02	.2657-02	1.586	10.12	540.0
170	35.000	.20000	110.00	.8930-01	.7290-01	.8930-01	.1576-02	.1300-02	.1576-02	.9380	9.506	541.9
170	39.000	.10000+00	116.00	.1146	.9470-01	.1146	.2045-02	.1689-02	.2045-02	1.225	7.826	538.1
170	40.000	.76000-01	121.00	.8240-01	.6810-01	.8240-01	.2848-02	.2348-02	.2848-02	1.690	12.55	543.5
170	40.000	.15000	111.00	.1596	.1316	.1596	.1554-02	.1282-02	.1554-02	.5240	10.30	542.6
170	40.000	.20000	112.00	.8710-01	.7190-01	.8710-01	.1922-02	.1637-02	.1922-02	1.166	8.027	538.7
170	42.500	.50000-01	127.00	.1111	.9170-01	.1111	.1688-02	.1395-02	.1688-02	1.014	5.967	536.5
170	45.000	.15000	117.00	.9460-01	.7820-01	.9460-01	.2031-05	.1679-05	.2031-05	.1000-02	.9000-02	532.7
169	45.000	.92500	969.00	.1000-03	.1000-03	.1000-03	.7875-05	.6507-05	.7875-05	.5000-02	.3500-01	534.4
169	45.000	.95000	973.00	.4000-03	.4000-03	.4000-03	.9925-05	.8202-05	.9925-05	.6000-02	.4400-01	533.5
169	45.000	.97500	978.00	.6000-03	.5000-03	.6000-03	.8634-03	.7137-03	.8634-03	.5200	3.325	534.9
170	51.000	.20000	118.00	.4640-01	.4000-01	.4640-01	.9052-03	.7483-03	.9052-03	.5450	3.699	534.6
170	60.000	.50000-01	131.00	.5070-01	.4190-01	.5070-01	.5313-03	.4393-03	.5313-03	.3210	2.393	533.7
170	67.500	.20000	128.00	.2980-01	.2460-01	.2980-01	.1191-04	.9841-05	.1191-04	.7000-02	.5300-01	533.8
169	75.000	.97500	977.00	.7000-03	.6000-03	.7000-03	.2775-04	.2293-04	.2775-04	1.700-01	1.240	533.8
169	85.000	.97500	976.00	.1600-02	.1300-02	.1600-02	.2923-03	.2415-03	.2923-03	1.760	1.362	535.9
170	105.00	.40100	135.00	.1640-01	.1350-01	.1640-01	.6104-03	.5039-03	.6104-03	.3650	2.911	539.2
170	105.00	.50100	136.00	.3420-01	.2820-01	.3420-01	.3430-03	.2833-03	.3430-03	.2050	1.639	538.4
170	105.00	.60100	137.00	.1920-01	.1590-01	.1920-01	.1671-03	.1381-03	.1671-03	.1000+00	.8030	535.9
170	105.00	.70100	138.00	.9400-02	.7700-02	.9400-02	.6929-04	.5731-04	.6929-04	.4200-01	.3350	532.6
170	105.00	.80000	139.00	.3200-02	.3200-02	.3200-02	.4788-03	.4788-03	.4788-03	.3470	2.771	538.2
170	113.00	.60100	146.00	.3250-01	.2680-01	.3250-01	.3774-03	.3774-03	.3774-03	.2740	2.184	538.3
170	116.00	.60100	147.00	.2560-01	.2120-01	.2560-01	.6965-04	.6965-04	.6965-04	.5100-01	.4070	533.4
170	116.00	.75100	148.00	.4700-02	.3900-02	.4700-02	.3001-03	.2483-03	.3001-03	.1820	1.101	531.8
170	120.00	.10000+00	132.00	.1680-01	.1390-01	.1680-01	.4277-03	.3539-03	.4277-03	.2590	2.143	531.4
170	120.00	.87500	247.00	.2400-01	.1980-01	.2400-01	.5818-03	.4812-03	.5818-03	.3520	2.909	532.3
170	120.00	.82500	248.00	.3260-01	.2700-01	.3260-01						

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISTO) BTU/ R FT2SEC	H(OTO) BTU/ R FT2SEC	H(ATA) BTU/ R FT2SEC	QOOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
170	120.00	.86200	249.00	.3360-01	.2780-01	.3360-01	.5996-03	.4961-03	.5996-03	.3630	2.659	531.8
170	130.00	.80500	253.00	.2700-01	.2240-01	.2700-01	.4823-03	.3990-03	.4823-03	.2920	2.342	531.3
170	130.00	.82900	254.00	.4540-01	.3760-01	.4540-01	.9106-03	.6705-03	.8106-03	.4900	3.806	532.6
170	130.00	.86200	255.00	.2730-01	.2260-01	.2730-01	.4877-03	.4035-03	.4877-03	.2950	2.444	531.3
170	135.00	.40100	142.00	.2100-02	.1700-02	.2100-02	.3747-04	.2099-04	.3747-04	.2300-01	.1760	533.1
170	135.00	.50100	143.00	.2400-02	.2000-02	.2400-02	.4210-04	.3481-04	.4210-04	.2500-01	.2100	534.4
170	135.00	.60100	144.00	.8000-02	.6600-02	.8000-02	.1428-03	.1180-03	.1428-03	.8600-01	.6680	534.3
170	135.00	.70100	145.00	.5500-02	.4500-02	.5500-02	.9798-04	.8103-04	.9798-04	.5900-01	.4740	533.1
170	140.00	.18000	85.000	.9600-02	.7900-02	.9600-02	.1705-03	.1410-03	.1705-03	.1030	.7960	532.6
170	140.00	.19500	87.000	.9200-02	.7700-02	.9200-02	.1350-03	.1365-03	.1650-03	.1000+00	.7720	532.0
170	145.00	.80500	259.00	.1760-01	.1460-01	.1760-01	.3148-03	.2506-03	.3148-03	.1910	1.486	530.3
171	145.00	.82900	260.00	.3550-01	.2940-01	.3550-01	.6366-03	.5272-03	.6366-03	.3890	2.936	530.6
171	145.00	.86200	261.00	.7100-02	.5800-02	.7100-02	.1266-03	.1049-03	.1266-03	.7800-01	.6430	529.0
170	150.00	.16000	86.000	.9000-02	.7400-02	.9000-02	.1597-03	.1321-03	.1597-03	.9700-01	.7220	532.1
170	150.00	.18000	84.000	.1530-01	.1270-01	.1530-01	.2732-03	.2260-03	.2732-03	.1550	1.234	532.3
170	150.00	.19000	82.000	.5000-03	.5000-03	.5000-03	.9712-05	.8029-05	.9712-05	.6000-02	.4400-01	534.7
170	155.00	.16000	80.000	.9400-02	.7700-02	.9400-02	.1609-03	.1381-03	.1609-03	.1010	.7550	531.9
170	155.00	.18000	83.000	.4000-03	.3000-03	.4000-03	.6935-05	.5733-05	.6935-05	.4000-02	.3100-01	534.8
170	160.00	.18000	77.000	.3040-01	.2510-01	.3040-01	.5417-03	.4478-03	.5417-03	.3260	2.610	534.3
170	175.00	.15000	81.000	.1090-01	.9000-02	.1090-01	.1942-03	.1605-03	.1942-03	.1170	.8480	532.9
170	175.00	.16500	79.000	.1860-01	.1540-01	.1860-01	.3323-03	.2748-03	.3323-03	.2010	1.498	533.2
170	175.00	.17500	78.000	.3110-01	.2570-01	.3110-01	.5542-03	.4562-03	.5542-03	.3340	2.413	534.2
169	180.00	.10000-01	59.000	.2375	.1954	.2375	.4236-02	.3486-02	.4236-02	2.478	18.37	547.8
169	180.00	.25000-01	60.000	.7420-01	.6120-01	.7420-01	.1324-02	.1092-02	.1324-02	.7860	5.659	539.5
169	180.00	.50000-01	61.000	.3520-01	.2910-01	.3520-01	.6285-03	.5190-03	.6285-03	.3750	2.396	536.2
169	180.00	.75000-01	62.000	.1750-01	.1450-01	.1750-01	.3138-03	.2593-03	.3138-03	.1880	1.200	534.8
169	180.00	.10000+00	63.000	.1190-01	.9800-02	.1190-01	.2124-03	.1755-03	.2124-03	.1270	.8370	534.4
169	180.00	.12500	64.000	.9100-02	.7500-02	.9100-02	.1625-03	.1343-03	.1625-03	.9700-01	.6810	533.8
169	180.00	.15000	65.000	.8100-02	.6700-02	.8100-02	.1441-03	.1191-03	.1441-03	.8600-01	.6050	533.1
169	180.00	.16000	66.000	.1000-01	.8200-02	.1000-01	.1779-03	.1470-03	.1779-03	.1070	.5970	533.5
169	180.00	.17000	67.000	.5320-01	.4390-01	.5320-01	.9481-03	.7829-03	.9481-03	.5660	3.163	536.2
169	180.00	.20000	69.000	.1400-01	.1160-01	.1400-01	.2494-03	.2060-03	.2494-03	.1490	.5280	534.4
169	180.00	.40100	72.000	.5400-02	.4500-02	.5400-02	.9636-04	.7960-04	.9636-04	.5800-01	.4120	535.0
169	180.00	.50000	73.000	.5500-02	.4500-02	.5500-02	.9769-04	.8070-04	.9769-04	.5800-01	.4930	535.2
169	180.00	.60100	74.000	.7100-02	.5800-02	.7100-02	.1263-03	.1043-03	.1263-03	.7500-01	.6230	535.1
169	180.00	.70100	75.000	.5400-02	.4500-02	.5400-02	.9712-04	.8025-04	.9712-04	.5800-01	.4860	533.9

FUSELAGE

PARAMETRIC DATA

ALPHA = 25.00 BETA = .0000 ELEVTR = .0000 SPD8FX = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO FS A	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
142	7.940	1.027	25.05	.0000	180.0	210.5	.2300-01	1264.	92.90	1.001	3750.	.2048-04
143	7.940	1.025	25.04	.0000	180.0	211.2	.2300-01	1267.	93.10	1.002	3754.	.2047-04
144	7.940	1.019	25.04	.0000	180.0	210.9	.2300-01	1271.	93.40	1.001	3760.	.2037-04
RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =									
142	.7480-07	.2445-01	0.0175									
143	.7495-07	.2448-01	.4018-01									
144	.7520-07	.2447-01	.4029-01									

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAB)	H19TO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAU BTU/ R FT2SEC	COOT BTU/ R FT2SEC	DTMDT DEG. R /SEC	TH DEG. R
142	.00000	.00000	1.0000	.8377	.6826	.7074	.2048-01	.1669-01	.1730-01	11.40	62.30	581.6
142	.00000	.50900-02	2.0000	.7485	.6182	.6162	.1830-01	.1487-01	.1507-01	10.03	68.24	590.0
142	.00000	.10000-01	3.0000	.6034	.4925	.5165	.1475-01	.1204-01	.1264-01	8.285	55.03	576.4
142	.00000	.20000-01	4.0000	.3635	.2987	.3272	.8869-02	.7303-02	.8002-02	5.176	28.66	555.7
142	.00000	.30000-01	5.0000	.2638	.2171	.2425	.6451-02	.5308-02	.59-0-02	3.788	21.03	550.7
142	.00000	.40000-01	6.0000	.2119	.1745	.1980	.5181-02	.4267-02	.4840-02	3.060	17.02	547.3
142	.00000	.50000-01	7.0000	.1975	.1624	.1853	.4828-02	.3970-02	.4556-02	2.824	18.98	553.0
142	.00000	.60000-01	8.0000	.1974	.1625	.1877	.4827-02	.3972-02	.4530-02	2.837	18.00	550.3
142	.00000	.70000-01	9.0000	.1643	.1551	.1574	.4017-02	.3303-02	.3848-02	2.350	16.29	552.8
142	.00000	.80000-01	10.000	.1282	.1055	.1236	.3135-02	.2580-02	.3021-02	1.844	12.80	547.2
142	.00000	.90000-01	11.000	.1211	.9970-01	.1172	.2960-02	.2438-02	.28-5-02	1.749	11.11	549.8
142	.00000	.10000+00	12.000	.1069	.8810-01	.1039	.2614-02	.2154-02	.2540-02	1.556	9.298	546.5
142	.00000	.14000	14.000	.1376	.1134	.1344	.3764-02	.2773-02	.3286-02	1.998	11.73	544.0
142	.00000	.13000	15.000	.8710-01	.7170-01	.8520-01	.2129-02	.1754-02	.2083-02	1.260	7.383	545.9
142	.00000	.14000	16.000	.8170-01	.6740-01	.8010-01	.1998-02	.1647-02	.1958-02	1.184	7.533	545.4
142	.00000	.16000	18.000	.8370-01	.6900-01	.8230-01	.2048-02	.1687-02	.2011-02	1.212	7.496	545.9
142	.00000	.17000	19.000	.8170-01	.6730-01	.8040-01	.1998-02	.1646-02	.1965-02	1.182	7.518	546.2

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## AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1802)

## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TW DEG. R
142	.00000	.18000	20.000	.8120-01	.6690-01	.7990-01	.1986-02	.1836-02	.1955-02	1.175	7.467	546.5
142	.00000	.19000	21.000	.7420-01	.6120-01	.7320-01	.1816-02	.1496-02	.1789-02	1.077	6.849	545.0
142	.00000	.20000	22.000	.7610-01	.6270-01	.7510-01	.1861-02	.1537-02	.1836-02	1.101	7.001	546.2
142	.00000	.22500	23.000	.7240-01	.5960-01	.7163-01	.1769-02	.1458-02	.1751-02	1.048	6.665	545.7
142	.00000	.25000	801.00	.6890-01	.5670-01	.6820-01	.1684-02	.1387-02	.1669-02	.9970	6.343	545.6
142	.00000	.30000	802.00	.6380-01	.5260-01	.6320-01	.1560-02	.1285-02	.1546-02	.9230	5.870	546.1
142	.00000	.35000	803.00	.6270-01	.5170-01	.6220-01	.1534-02	.1263-02	.1521-02	.9050	5.749	548.1
142	.00000	.40000	804.00	.6250-01	.5150-01	.6190-01	.1528-02	.1258-02	.1514-02	.9010	5.893	548.1
142	.00000	.45000	805.00	.5910-01	.4960-01	.5850-01	.1444-02	.1189-02	.1431-02	.8500	5.723	549.3
142	.00000	.50000	806.00	.5500-01	.4530-01	.5460-01	.1346-02	.1108-02	.1374-02	.7910	5.493	550.0
142	.00000	.55000	807.00	.5100-01	.4190-01	.5050-01	.1247-02	.1026-02	.1236-02	.7310	5.408	551.6
142	.00000	.60000	808.00	.4750-01	.3910-01	.4710-01	.1161-02	.9550-03	.1151-02	.6810	5.038	551.5
142	.00000	.65000	809.00	.4440-01	.3650-01	.4400-01	.1086-02	.8936-03	.1077-02	.6360	4.707	552.2
142	.00000	.70000	810.00	.4240-01	.3490-01	.4200-01	.1036-02	.8524-03	.1027-02	.6070	4.547	552.0
142	.00000	.75000	811.00	.4240-01	.3480-01	.4200-01	.1036-02	.8519-03	.1025-02	.6070	4.493	551.5
142	.00000	.80000	812.00	.4240-01	.3480-01	.4200-01	.1036-02	.8519-03	.1025-02	.6070	5.001	551.0
142	.00000	.85000	813.00	.4200-01	.3460-01	.4210-01	.1027-02	.8454-03	.1029-02	.6040	4.625	550.1
142	.00000	.90000	814.00	.3940-01	.3250-01	.3960-01	.9642-03	.7941-03	.9681-03	.5690	4.085	547.5
142	.00000	.92500	815.00	.3070-01	.2530-01	.3090-01	.7503-03	.6181-03	.7552-03	.4440	3.658	546.3
142	.00000	.95000	816.00	.2820-01	.2330-01	.2850-01	.6905-03	.5590-03	.6568-03	.4090	3.374	545.4
142	.00000	.97500	817.00	.2590-01	.2140-01	.2620-01	.6334-03	.5221-03	.6408-03	.3760	3.038	544.9
142	.00000	1.0150	818.00	.1450-01	.1200-01	.1480-01	.3557-03	.2936-03	.3608-03	.2130	1.584	539.7
142	.00000	1.0300	819.00	.1540-01	.1270-01	.1560-01	.3764-03	.3108-03	.3818-03	.2260	1.679	538.8
142	.00000	1.0450	820.00	.1390-01	.1150-01	.1410-01	.3402-03	.2809-03	.3451-03	.2040	1.626	538.9
142	.00000	1.0600	821.00	.1030-01	.8500-02	.1050-01	.2525-03	.2085-03	.2561-03	.1510	1.275	538.7
142	.00000	.15000	89.000	.1260-01	.1040-01	.1260-01	.3083-03	.2552-03	.3089-03	.1860	1.121	537.4
142	.00000	.20000	91.000	.1610-01	.1610-01	.1960-01	.4781-03	.3949-03	.4781-03	.2870	1.780	538.0
142	.00000	.50000-01	90.000	.7800-02	.6500-02	.7800-02	.1913-03	.1581-03	.1913-03	.1150	.6350	536.6
142	.00000	.40000	823.00	.6670-01	.5480-01	.6610-01	.1630-02	.1341-02	.1616-02	.9560	7.575	551.7
142	.00000	.50000	824.00	.6160-01	.5060-01	.6110-01	.1506-02	.1238-02	.1497-02	.8800	5.969	553.7
142	.00000	.60000	825.00	.4220-01	.3470-01	.4190-01	.1033-02	.8490-03	.1023-02	.6040	5.355	553.3
142	.00000	.70000	826.00	.4900-01	.4030-01	.4860-01	.1199-02	.9863-03	.1189-02	.7020	5.190	552.7
142	.00000	.80000	827.00	.4630-01	.3810-01	.4590-01	.1133-02	.9324-03	.1123-02	.6650	4.921	551.1
142	.00000	.90000	828.00	.3550-01	.2930-01	.3570-01	.6687-03	.7154-03	.8722-03	.5130	4.073	547.6
143	.20.000	.10000+00	103.00	.1782	.1467	.1782	.4362-02	.3591-02	.4362-02	2.573	15.04	550.2
143	.20.000	.15000	104.00	.1030	.8490-01	.1030	.2521-02	.2078-02	.2521-02	1.497	9.518	546.3
142	.20.000	.92500	971.00	.4360-01	.3590-01	.4360-01	.1067-02	.8781-03	.1067-02	.6280	4.649	549.5
142	.20.000	.95000	975.00	.5010-01	.4120-01	.5010-01	.1224-02	.1008-02	.1224-02	.7220	5.350	548.1
142	.20.000	.97500	980.00	.5320-01	.4390-01	.5320-01	.1302-02	.1073-02	.1302-02	.7710	5.723	545.5
143	.22.000	.50000-01	105.00	.2302	.1895	.2302	.5635-02	.4640-02	.5635-02	3.331	18.50	549.1
142	.24.000	.20000	93.000	.1960-01	.1620-01	.1960-01	.4801-03	.3965-03	.4801-03	.2880	1.788	538.0
143	.24.500	.10000+00	106.00	.1939	.1596	.1939	.4747-02	.3907-02	.4747-02	2.798	17.75	550.8
143	.25.500	.15000	107.00	.1226	.1008	.1225	.3000-02	.2468-02	.3000-02	1.765	15.67	551.8



(RV1802)

## AEDC VKF V41B-57A (OH-49B) COLLATION DECK

## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(7T) BTU/ R FT2SEC	H(1AM) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TM DEG. R
142	30.000	.92500	970.00	.3040-01	.2500-01	.3040-01	.7423-03	.6118-03	.7423-03	.4400	3.268	544.9
142	30.000	.95000	974.00	.3470-01	.2860-01	.3470-01	.8476-03	.6988-03	.8476-03	.5030	3.737	544.2
142	30.000	.97500	979.00	.1390-01	.1150-01	.1390-01	.3390-03	.2800-03	.3390-03	.2030	1.515	538.1
143	31.500	.20000	108.00	.7920-01	.6530-01	.7920-01	.1939-02	.1597-02	.1939-02	1.147	11.59	548.7
142	32.000	.40070	831.00	.9040-01	.7440-01	.8960-01	.2211-02	.1819-02	.2191-02	1.299	9.012	550.6
142	32.000	.50000	832.00	.7470-01	.6140-01	.7470-01	.1327-02	.1502-02	.1811-02	1.066	7.623	554.3
142	32.000	.60000	833.00	.6380-01	.5240-01	.6330-01	.1511-02	.1282-02	.1547-02	.9100	6.110	554.9
142	32.000	.70000	834.00	.6040-01	.4960-01	.5980-01	.1476-02	.1214-02	.1463-02	.8630	6.600	553.3
142	32.000	.80000	835.00	.4500-01	.3700-01	.4460-01	.1100-02	.9050-03	.1090-02	.6460	4.627	550.7
142	32.070	.90000	836.00	.3490-01	.2870-01	.3500-01	.8223-03	.7020-03	.8558-03	.5030	3.730	547.6
142	32.000	.97500	837.00	.3970-01	.3270-01	.4000-01	.9696-03	.7990-03	.9784-03	.5740	4.408	545.7
142	32.000	.97500	838.00	.4500-01	.3710-01	.4550-01	.1100-02	.9066-03	.1113-02	.6530	5.195	544.2
142	32.000	1.0150	839.00	.2250-01	.1860-01	.2200-01	.5505-03	.4545-03	.5374-03	.3300	2.676	538.3
142	32.000	1.0300	840.00	.2260-01	.1860-01	.2200-01	.5517-03	.4556-03	.5387-03	.3310	2.592	538.7
142	32.000	1.0450	841.00	.2700-01	.2230-01	.2640-01	.6600-03	.5449-03	.6444-03	.3950	3.044	539.1
142	32.000	1.0600	842.00	.1930-01	.1590-01	.1680-01	.4711-03	.3891-03	.4600-03	.2830	2.339	538.0
143	35.000	.50000-01	115.00	.1458	.1201	.1458	.3568-02	.2939-02	.3568-02	2.113	13.42	548.0
143	35.000	.20000	110.00	.9150-01	.7530-01	.9150-01	.2240-02	.1843-02	.2240-02	1.320	13.32	550.8
143	39.000	.10000-00	116.00	.1073	.8840-01	.1073	.2626-02	.2165-02	.2626-02	1.561	9.924	545.9
143	40.000	.76000-01	121.00	.8050-01	.6640-01	.8050-01	.3923-02	.3144-02	.3923-02	1.175	7.479	543.7
143	40.000	.15000	111.00	.1562	.1284	.1562	.2673-02	.2203-02	.2673-02	2.241	16.56	554.0
143	40.000	.20000	112.00	.8800-01	.7240-01	.8800-01	.2154-02	.1771-02	.2154-02	1.264	14.01	553.3
143	42.500	.50000-01	127.00	.1092	.9000-01	.1092	.2673-02	.2203-02	.2673-02	1.589	10.72	545.5
143	45.000	.15000	117.00	.9230-01	.7610-01	.9230-01	.2258-02	.1832-02	.2258-02	1.344	7.872	545.2
142	45.000	.92500	969.00	.3200-02	.2700-02	.3200-02	.7851-04	.6487-04	.7851-04	.4700-01	.3520	536.7
142	45.000	.97500	978.00	.1200-02	.1000-02	.1200-02	.2901-04	.2397-04	.2901-04	.1700-01	1.1300	536.1
143	51.000	.20000	118.00	.4830-01	.3990-01	.4830-01	.1183-02	.9765-03	.1183-02	.7080	4.508	542.3
143	60.000	.50000-01	131.00	.4850-01	.4000-01	.4850-01	.1187-02	.9797-03	.1187-02	.7120	4.814	540.4
143	67.500	.20000	128.00	.2970-01	.2450-01	.2970-01	.7278-03	.6006-03	.7278-03	.4360	3.230	541.7
142	75.000	.97500	977.00	.1200-02	.1000-02	.1200-02	.2940-04	.2429-04	.2940-04	.1900-01	1.1320	536.6
142	85.007	.97500	976.00	.1800-02	.1500-02	.1800-02	.4367-04	.3608-04	.4367-04	.2600-01	1.1960	536.7
143	105.00	.40100	135.00	.1530-01	.1260-01	.1530-01	.3748-03	.3093-03	.3748-03	.2240	1.735	541.3
143	105.00	.50100	136.00	.3640-01	.3000-01	.3640-01	.8900-03	.7339-03	.8900-03	.5300	4.218	544.3
143	105.00	.60100	137.00	.2800-01	.2310-01	.2800-01	.6857-03	.5655-03	.6857-03	.4090	3.253	542.9
143	105.00	.70100	139.00	.1020-02	.8500-02	.1020-02	.2508-03	.2070-03	.2508-03	.1500	1.197	541.1
143	105.00	.80000	139.00	.4100-02	.3400-02	.4100-02	.9945-04	.8215-04	.9945-04	.6000-01	.4780	538.5
143	113.00	.60100	146.00	.4420-01	.3650-01	.4420-01	.1083-02	.8930-03	.1083-02	.6450	5.129	544.6
143	116.00	.60100	147.00	.3930-01	.3240-01	.3930-01	.9631-03	.7941-03	.9631-03	.5730	4.558	545.
143	116.00	.75100	148.00	.1160-01	.9600-02	.1160-01	.2832-03	.2338-03	.2832-03	.1700	1.353	540.
143	120.00	.10000-00	132.00	.1560-01	.1290-01	.1560-01	.3630-03	.3163-03	.3630-03	.2300	1.390	535.
143	120.00	.80500	247.00	.3930-01	.3240-01	.3930-01	.9609-03	.7931-03	.9609-03	.5760	4.736	541.
143	120.00	.82900	248.00	.4680-01	.3860-01	.4680-01	.1145-02	.9443-03	.1145-02	.6850	5.628	542.4
143	120.00	.86200	249.00	.4720-01	.3900-01	.4720-01	.1156-02	.9543-03	.1156-02	.6930	5.048	541.0

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H' HREF P=0.9	H' HREF R=1.0	H' HREF (TAW)	H'(GTO) BTU/ R FT2SEC	H'(TO) BTU/ R FT2SEC	H'(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
143	130.00	.80500	253.00	.5020-01	.4150-01	.5020-01	.1230-02	.1015-02	.1230-02	.7350	5.856	542.2
143	130.00	.82900	254.00	.7440-01	.6130-01	.7440-01	.1820-02	.1501-02	.1820-02	1.086	8.378	543.6
143	130.00	.86200	255.00	.2870-01	.2370-01	.2870-01	.7034-03	.5810-03	.7034-03	.4230	3.485	538.9
143	135.00	.40100	142.00	.1700-02	.1400-02	.1700-02	.2034-04	.3473-04	.2034-04	.2500-01	.1960	538.3
143	135.00	.50100	143.00	.2000-02	.2000-02	.2500-02	.6034-04	.4984-04	.6034-04	.3600-01	.2990	538.9
143	135.00	.60100	144.00	.3800-02	.3100-02	.3800-02	.9265-04	.7653-04	.9265-04	.5600-01	.4310	538.7
143	135.00	.70100	145.00	.4600-02	.3800-02	.4600-02	.1119-03	.9244-04	.1119-03	.6700-01	.5370	538.7
143	140.00	.18000	85.000	.1920-01	.1590-01	.1920-01	.4710-03	.3891-03	.4710-03	.2830	2.181	539.1
143	140.00	.19500	87.000	.2200-02	.6800-02	.8200-02	.2003-03	.1654-03	.2003-03	.1200	.9280	538.9
143	145.00	.80500	259.00	.2880-01	.2380-01	.2880-01	.7047-03	.5821-03	.7047-03	.4240	3.279	538.8
144	145.00	.82900	260.00	.2130-01	.1760-01	.2130-01	.5205-03	.4306-03	.5205-03	.3160	2.371	538.2
144	145.00	.86200	261.00	.6800-02	.5600-02	.6800-02	.1665-03	.1378-03	.1665-03	.1010	.8360	535.6
143	150.00	.16000	86.000	.1140-01	.9400-02	.1140-01	.2779-03	.2295-03	.2779-03	.1670	1.244	539.0
143	150.00	.18000	84.000	.1890-01	.1560-01	.1890-01	.4625-03	.3820-03	.4625-03	.2780	2.069	539.4
143	150.00	.19300	82.000	.3000-03	.2000-03	.3000-03	.7355-05	.6089-05	.7355-05	.4000-02	3.300-01	535.7
143	155.00	.16000	80.000	.1040-01	.6600-02	.1040-01	.2540-03	.2098-03	.2540-03	.1530	1.137	539.0
143	155.00	.18000	83.000	.4000-03	.3000-03	.4000-03	.9187-05	.7596-05	.9187-05	.6000-02	4.100-01	535.2
143	160.00	.18000	77.000	.2900-01	.2390-01	.2900-01	.7094-03	.5855-03	.7094-03	.4250	3.385	541.3
143	175.00	.15000	81.000	.1310-01	.1080-01	.1310-01	.3207-03	.2649-03	.3207-03	.1930	1.389	539.6
143	175.00	.16500	79.000	.2240-01	.1850-01	.2240-01	.5490-03	.4533-03	.5490-03	.3290	2.450	540.4
143	180.00	.17500	78.000	.3910-01	.3230-01	.3910-01	.9580-03	.7906-03	.9580-03	.5730	4.124	541.8
142	180.00	.10000-01	59.000	.2305	.1895	.2305	.5636-02	.4635-02	.5636-02	3.298	24.38	552.8
142	180.00	.25000-01	60.000	.7060-01	.5820-01	.7060-01	.1726-02	.1424-02	.1726-02	1.028	7.397	542.3
142	180.00	.50000-01	61.000	.3160-01	.2610-01	.3160-01	.7731-03	.6384-03	.7731-03	.4630	2.956	538.9
142	180.00	.75000-01	62.000	.1600-01	.1320-01	.1600-01	.3907-03	.3227-03	.3907-03	.2340	1.496	538.2
142	180.00	.10000+00	53.000	.1050-01	.8600-02	.1050-01	.2556-03	.2111-03	.2556-03	.1530	1.007	538.3
142	190.00	.12500	64.000	.7500-02	.6600-02	.7500-02	.1943-03	.1605-03	.1943-03	.1170	.8140	538.0
142	190.00	.15000	65.000	.7200-02	.6000-02	.7200-02	.1771-03	.1463-03	.1771-03	.1060	.7430	537.4
142	190.00	.16000	66.000	.1900-01	.1570-01	.1900-01	.4641-03	.3833-03	.4641-03	.2780	1.556	538.0
142	180.00	.17000	67.000	.5140-01	.4240-01	.5140-01	.1256-02	.1037-02	.1256-02	.7490	4.178	541.6
142	180.00	.20000	69.000	.1340-01	.1110-01	.1340-01	.3271-03	.2702-03	.3271-03	.1960	1.219	537.7
142	180.00	.40100	72.000	.6000-02	.4900-02	.6000-02	.1456-03	.1203-03	.1456-03	.8700-01	.7440	538.3
142	180.00	.50000	73.000	.8000-02	.6600-02	.8000-02	.1946-03	.1607-03	.1946-03	.1170	.9940	538.2
142	180.00	.60100	74.000	.6200-02	.5100-02	.6200-02	.1506-03	.1244-03	.1506-03	.9000-01	.7440	538.4
142	180.00	.70100	75.000	.7000-02	.5800-02	.7000-02	.1720-03	.1421-03	.1720-03	.1030	.8250	537.3

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

'AGE 41

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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## FUSELAGE

## PARAMETRIC DATA

ALPHA = 25.00 BETA = .0000 ELEVTR = .0000 SPDGRK = .0000  
BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
121	7.970	1.507	25.03	.0000	180.0	319.1	.3300-01	1282.	93.50	1.489	3777.	.3004-04
122	7.970	1.511	25.04	.0000	180.0	320.3	.3400-01	1283.	93.60	1.495	3778.	.3013-04
123	7.970	1.499	25.07	.0000	180.0	318.3	.3300-01	1284.	93.70	1.486	3781.	.2991-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
121	.7531-07		0.0175
122	.7536-07		.3321-01
123	.7545-07		.3316-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1GTO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
121	.00000	.00000	1.0000	.8371	.6803	.7052	.2503-01	.2034-01	.2109-01	13.92	75.48	597.6
121	.00000	.5000-02	2.0000	.7526	.6094	.6176	.2250-01	.1822-01	.1846-01	12.28	82.81	608.0
121	.00000	.10000-01	3.0000	.5937	.4833	.5076	.1775-01	.1445-01	.1518-01	9.964	65.66	592.4
121	.00000	.20000-01	4.0000	.3624	.2974	.3261	.1083-01	.8893-02	.9749-02	6.361	35.03	566.7
121	.00000	.30000-01	5.0000	.2630	.2163	.2421	.7865-02	.6467-02	.7240-02	4.663	25.76	560.8
121	.00000	.40000-01	6.0000	.2230	.1836	.2083	.6668-03	.5489-02	.6229-02	3.979	22.02	557.0
121	.00000	.50000-01	7.0000	.1924	.1581	.1815	.5752-02	.4726-02	.5427-02	3.397	22.71	563.2
121	.00000	.60000-01	8.0000	.1928	.1586	.1834	.5765-02	.4742-02	.5488-02	3.423	21.62	559.9
121	.00000	.70000-01	9.0000	.1601	.1317	.1534	.4788-03	.3937-02	.4588-02	2.838	19.59	561.0
121	.00000	.80000-01	10.000	.1285	.1058	.1239	.3844-02	.3162-02	.3704-02	2.286	15.79	559.0
121	.00000	.90000-01	11.000	.1200	.9880-01	.1161	.3587-02	.2954-02	.3472-02	2.145	13.57	555.8
121	.00000	.10000*00	12.000	.1068	.8790-01	.1038	.3192-02	.2629-02	.3102-02	1.911	11.45	554.9
121	.00000	.12000	14.000	.1088	.8970-01	.1063	.3253-02	.2682-02	.3178-02	1.958	10.86	551.8
121	.00000	.13000	15.000	.9160-01	.7550-01	.8970-01	.2739-02	.2237-02	.2660-02	1.645	9.597	553.2
121	.00000	.14000	16.000	.8240-01	.6900-01	.8080-01	.2465-02	.2032-02	.2416-02	1.482	9.393	552.5
121	.00000	.15000	18.000	.8300-01	.6840-01	.8150-01	.2481-02	.2045-02	.2437-02	1.491	9.185	552.9
121	.00000	.16000	19.000	.8130-01	.6700-01	.8000-01	.2432-02	.2004-02	.2392-02	1.460	9.252	553.3

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AH) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
121	.00000	.12000	20.000	.8050-01	.6840-01	.7930-01	.2408-02	.1984-02	.2371-02	1.446	9.160	553.3
121	.00000	.19000	21.000	.7750-01	.6390-01	.7640-01	.2318-02	.1911-02	.2285-02	1.395	8.646	551.7
121	.00000	.20000	22.000	.7730-01	.6380-01	.7630-01	.2313-02	.1906-02	.2283-02	1.390	8.607	552.8
121	.00000	.22500	23.000	.7040-01	.5800-01	.6970-01	.2103-02	.1735-02	.2083-02	1.266	8.029	552.0
121	.00000	.25000	801.00	.6970-01	.5750-01	.6910-01	.2085-02	.1718-02	.2066-02	1.253	7.937	552.8
121	.00000	.30000	802.00	.6510-01	.5370-01	.6450-01	.1947-02	.1604-02	.1930-02	1.169	7.406	553.2
121	.00000	.35000	803.00	.6310-01	.5190-01	.6250-01	.1885-02	.1553-02	.1869-02	1.129	7.145	555.1
121	.00000	.40000	804.00	.6350-01	.5240-01	.6300-01	.1901-02	.1565-02	.1884-02	1.138	7.413	555.9
121	.00000	.45000	805.00	.5850-01	.4820-01	.5800-01	.1749-02	.1440-02	.1734-02	1.044	7.002	556.8
121	.00000	.50000	806.00	.5000-01	.4360-01	.5250-01	.1584-02	.1304-02	.1571-02	.9460	6.542	558.4
121	.00000	.55000	807.00	.5150-01	.4160-01	.5030-01	.1513-02	.1245-02	.1500-02	.9010	6.642	558.4
121	.00000	.60000	808.00	.4700-01	.3760-01	.4530-01	.1367-02	.1125-02	.1355-02	.8140	6.006	558.0
121	.00000	.65000	809.00	.4230-01	.3540-01	.4270-01	.1286-02	.1058-02	.1275-02	.7650	5.636	559.3
121	.00000	.70000	810.00	.3540-01	.3240-01	.3900-01	.1178-02	.0987-03	.1167-02	.7000	5.339	559.1
121	.00000	.75000	811.00	.3540-01	.3370-01	.4050-01	.1223-02	.1006-02	.1212-02	.7280	5.366	558.6
121	.00000	.80000	812.00	.4100-01	.3710-01	.4470-01	.1349-02	.1110-02	.1337-02	.8040	5.931	557.6
121	.00000	.85000	813.00	.4200-01	.3470-01	.4220-01	.1261-02	.1038-02	.1263-02	.7530	5.746	556.6
121	.00000	.90000	814.00	.3930-01	.3240-01	.3950-01	.1175-02	.0985-03	.1180-02	.7060	5.048	553.2
121	.00000	.92500	815.00	.3950-01	.2510-01	.3070-01	.0910-03	.0750-03	.0918-03	.5480	4.507	551.6
121	.00000	.95000	816.00	.2890-01	.2380-01	.2910-01	.0628-03	.0711-03	.0708-03	.5200	4.273	551.3
121	.00000	.97500	817.00	.2420-01	.2000-01	.2450-01	.0725-03	.0596-03	.0735-03	.4360	3.562	552.4
121	.00000	1.01500	818.00	.1450-01	.1230-01	.1510-01	.0448-03	.0367-03	.0451-03	.2700	2.005	546.1
121	.00000	1.03000	819.00	.1530-01	.1310-01	.1610-01	.0475-03	.0392-03	.0482-03	.2890	2.148	545.0
121	.00000	1.04500	820.00	.1420-01	.1170-01	.1440-01	.0423-03	.0349-03	.0429-03	.2580	2.048	545.1
121	.00000	1.06000	821.00	.1010-01	.0830-02	.1020-01	.0301-03	.0249-03	.0306-03	.1840	1.542	545.3
121	.00000	1.50000	89.000	.1750-01	.1050-01	.1260-01	.0377-03	.0312-03	.0377-03	.2320	1.399	539.8
121	.00000	2.00000	91.000	.2160-01	.1780-01	.2160-01	.0448-03	.0336-03	.0448-03	.3960	2.459	539.1
121	.00000	5.00000	90.000	.5400-02	.4500-02	.5400-02	.1616-03	.1337-03	.1616-03	.9900-01	.6010	538.0
121	.00000	8.23.00	823.00	.6600-01	.5430-01	.6540-01	.1972-02	.1622-02	.1955-02	1.173	9.258	559.2
121	.00000	8.24.00	824.00	.6100-01	.5020-01	.6050-01	.1824-02	.1500-02	.1808-02	1.081	8.528	561.1
121	.00000	8.25.00	825.00	.4030-01	.3360-01	.4060-01	.1224-02	.1006-02	.1213-02	.7250	6.407	561.1
121	.00000	8.26.00	826.00	.4380-01	.3500-01	.4340-01	.1309-02	.1077-02	.1298-02	.7770	5.723	560.3
121	.00000	8.27.00	827.00	.4560-01	.3750-01	.4520-01	.1364-02	.1123-02	.1352-02	.9120	5.989	558.3
121	.00000	8.28.00	828.00	.3570-01	.2940-01	.3580-01	.1066-02	.0874-03	.1071-02	.6400	5.066	551.6
122	.00000	103.00	103.00	.768	.1457	.1768	.5297-02	.4366-02	.5297-02	3.185	18.59	553.2
122	.00000	104.00	104.00	.1050	.8660-01	.1050	.3146-02	.2595-02	.3146-02	1.901	12.06	550.5
122	.00000	92500	971.00	.5440-01	.4470-01	.5440-01	.1626-02	.1338-02	.1626-02	.9680	7.142	558.0
121	.00000	95000	975.00	.6010-01	.4950-01	.6010-01	.1796-02	.1479-02	.1796-02	1.073	7.924	555.9
121	.00000	97500	990.00	.6020-01	.4960-01	.6020-01	.1800-02	.1484-02	.1800-02	1.083	8.013	552.0
122	.00000	50000-01	105.00	.2263	.1865	.2263	.6780-02	.5587-02	.6780-02	4.072	22.57	553.9
121	.00000	20000	93.000	.2240-01	.1860-01	.2240-01	.6705-03	.5548-02	.6705-03	.4120	2.555	539.4
122	.00000	10000+00	106.00	.1954	.1609	.1954	.5853-02	.4820-02	.5853-02	3.505	22.18	555.7
122	.00000	15070	107.00	.1208	.3950-01	.1208	.3620-02	.2982-02	.3620-02	2.170	19.23	555.0

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(19TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AK) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
121	30.000	.92500	970.00	.4640-01	.3830-01	.4640-01	.1388-02	.1144-02	.1388-02	.8340	6.170	552.5
121	30.000	.95000	974.00	.5010-01	.4130-01	.5010-01	.1497-02	.1234-02	.1497-02	.9000	6.551	552.7
121	30.000	.97500	979.00	.3260-01	.2690-01	.3260-01	.9738-03	.8050-03	.9738-03	.5950	4.424	542.5
122	31.500	.20000	108.00	.8060-01	.6650-01	.8060-01	.16-02	.1531-02	.2416-02	1.452	14.63	553.6
121	32.000	.40000	831.00	.8930-01	.7340-01	.8850-01	.2669-02	.2196-02	.2646-02	1.588	10.98	558.5
121	32.000	.50000	832.00	.7320-01	.6020-01	.7260-01	.2189-02	.1800-02	.2170-02	1.296	9.235	561.6
121	32.000	.60000	833.00	.6320-01	.5200-01	.6270-01	.1891-02	.1554-02	.1874-02	1.117	7.471	562.9
121	32.000	.70000	834.00	.4850-01	.3990-01	.4810-01	.1450-02	.1192-02	.1437-02	.8590	6.541	561.4
121	32.000	.80000	835.00	.4270-01	.3520-01	.4240-01	.1278-02	.1052-02	.1267-02	.7610	5.431	558.1
121	32.000	.90000	836.00	.3620-01	.2980-01	.3630-01	.1082-02	.8917-03	.1087-02	.6500	4.802	553.3
121	32.000	.95000	837.00	.4090-01	.3370-01	.4120-01	.1222-02	.1007-02	.1233-02	.7350	5.628	551.8
121	32.000	.97500	838.00	.4250-01	.3510-01	.4300-01	.1271-02	.1048-02	.1285-02	.7680	6.090	549.6
121	32.000	1.0150	839.00	.2200-01	.1820-01	.2150-01	.6576-03	.5432-03	.6421-03	.4000	3.240	545.1
121	32.000	1.0300	840.00	.2290-01	.1890-01	.2240-01	.6844-03	.5654-03	.6683-03	.4170	3.260	544.2
121	32.000	1.0450	841.00	.2800-01	.2310-01	.2730-01	.8365-03	.6911-03	.8169-03	.5100	3.914	544.5
121	32.000	1.0600	842.00	.2120-01	.1750-01	.2070-01	.6340-03	.5240-03	.6192-03	.3870	3.195	543.3
122	35.000	.50000-01	115.00	.1448	.1194	.1448	.4338-02	.3578-02	.4338-02	2.619	16.61	550.8
122	35.000	.20900	110.00	.5050-01	.7450-01	.9050-01	.2712-02	.2233-02	.2712-02	1.619	16.29	557.5
122	35.000	.10000-00	116.00	.1084	.8950-01	.1084	.3249-02	.2681-02	.3249-02	1.966	12.48	548.3
122	40.000	.76000-01	121.00	.7970-01	.6580-01	.7970-01	.2388-02	.1973-02	.2388-02	1.453	9.243	546.0
122	40.000	.15000	111.00	.1612	.1326	.1612	.4828-02	.3973-02	.4828-02	2.877	21.21	558.6
122	42.500	.50000-01	127.00	.1067	.8810-01	.1067	.2683-02	.2209-02	.2683-02	1.603	17.73	557.2
122	45.000	.92500	969.00	.8000-02	.6600-02	.8000-02	.2706-02	.2234-02	.2706-02	1.936	13.03	549.2
121	45.000	.95000	973.00	.1030-02	.8000-03	.1000-02	.2379-03	.1958-03	.2379-03	1.643	9.616	547.4
121	45.000	.97500	978.00	.2100-02	.1700-02	.2100-02	.2980-04	.2447-04	.2379-03	1.460	1.086	540.2
121	51.000	.20000	118.00	.4650-01	.3840-01	.4650-01	.1393-02	.1151-02	.1393-02	.1800-01	.1370	537.1
122	60.000	.50000-01	131.00	.4020-01	.3980-01	.4620-01	.1443-02	.1193-02	.1443-02	.8500	5.407	544.6
122	67.500	.20000	128.00	.3050-01	.2520-01	.3050-01	.9134-03	.7550-03	.9134-03	.5580	4.148	543.3
121	75.000	.97500	977.00	.2000-02	.1700-02	.2000-02	.6012-04	.4977-04	.6012-04	.3700-01	.2760	537.2
122	85.000	.97500	976.00	.3500-02	.2900-02	.3500-02	.1057-03	.8749-04	.1057-03	.6500-01	.4850	537.2
122	105.00	.40100	135.00	.1600-01	.1320-01	.1600-01	.4781-03	.3953-03	.4781-03	.2930	2.260	542.3
122	105.00	.50100	136.00	.3410-01	.2820-01	.3410-01	.1021-02	.8436-03	.1021-02	.6220	4.939	546.0
122	105.00	.60100	137.00	.3640-01	.3010-01	.3640-01	.1091-02	.9008-03	.1091-02	.6630	5.262	547.1
122	105.00	.70100	138.00	.1200-01	.1020-01	.1240-01	.3711-03	.3068-03	.3711-03	.2270	1.808	542.5
122	105.00	.80000	139.00	.4300-02	.3600-02	.4300-02	.1291-03	.1068-03	.1291-03	.7300-01	.6340	539.2
122	113.00	.60100	146.00	.4420-01	.3650-01	.4420-01	.1323-02	.1093-02	.1323-02	.8050	6.393	546.4
122	116.00	.60100	147.00	.4750-01	.3920-01	.4750-01	.1124-02	.1175-02	.1424-02	.6640	6.853	548.1
122	116.00	.75100	148.00	.1300-01	.1080-01	.1300-01	.3908-03	.3531-03	.3908-03	.2390	1.906	542.1
122	120.00	.10000-00	132.00	.1530-01	.1300-01	.1530-01	.4574-03	.3783-03	.4574-03	.2810	1.694	540.5
122	120.00	.80500	247.00	.8270-01	.6830-01	.8270-01	.2477-02	.2045-02	.2477-02	1.502	12.30	548.2
122	120.00	.82900	248.00	.7270-01	.6010-01	.7270-01	.2179-02	.1800-02	.2179-02	1.326	10.88	545.9

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AEDC VKI V-1B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V-1B-57A) ORBITER FUSELAGE

(RV1802)

RUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
122	120.00	.86200	249.00	.6190-01	.5120-01	.6190-01	.1854-02	.1533-02	.1854-02	.1134	8.254	543.0
122	130.00	.80500	253.00	.9770-01	.8060-01	.9770-01	.2926-02	.2414-02	.2926-02	1.770	14.03	549.8
122	130.00	.82900	254.00	.8570-01	.7070-01	.8570-01	.2566-02	.2119-02	.2566-02	1.560	12.01	546.7
122	130.00	.86200	255.00	.3730-01	.3080-01	.3730-01	.1117-02	.9240-03	.1117-02	.6860	5.644	540.6
122	135.00	.40100	142.00	.1400-02	.1100-02	.1400-02	.4134-04	.3422-04	.4134-04	.2500-01	.1970	538.7
122	135.00	.50100	143.00	.2400-02	.2000-02	.2400-02	.7281-04	.6025-04	.7281-04	.4500-01	.3690	539.5
122	135.00	.60100	144.00	.4000-02	.3300-02	.4000-02	.1212-03	.1003-03	.1212-03	.7500-01	.5770	539.3
122	135.00	.70100	145.00	.4500-02	.3700-02	.4500-02	.1345-03	.1113-03	.1345-03	.8300-01	.6610	538.9
122	140.00	.18000	85.000	.5100-02	.4200-02	.5100-02	.1525-03	.1261-03	.1525-03	.9300-01	.7190	541.6
122	140.00	.19500	87.000	.9200-02	.7600-02	.9200-02	.2762-03	.2286-03	.2762-03	1.700	1.308	539.6
122	145.00	.80500	259.00	.4420-01	.3660-01	.4420-01	.1324-02	.1095-02	.1324-02	.8120	6.273	541.5
123	145.00	.82900	260.00	.2110-01	.1750-01	.2110-01	.6.01-03	.5214-03	.6301-03	.3880	2.914	539.8
123	145.00	.86200	261.00	.6100-02	.5100-02	.6100-02	.1824-03	.1511-03	.1824-03	1.130	.9310	536.8
122	150.00	.16000	86.000	.1040-01	.8500-02	.1040-01	.3110-03	.2572-03	.3110-03	.1910	1.420	540.6
122	150.00	.18000	84.000	.2060-01	.700-01	.2060-01	.6159-03	.5094-03	.6159-03	.3780	2.809	541.3
122	150.00	.19000	82.000	.4000-03	.4000-03	.4000-03	.1312-04	.1087-04	.1312-04	.8000-02	.6000-01	536.7
122	155.00	.16000	83.000	.1120-01	.9300-02	.1120-01	.3362-03	.2781-03	.3362-03	.2060	1.536	540.5
122	155.00	.18000	83.000	.4000-03	.3000-03	.4000-03	.1155-04	.9600-05	.1159-04	.7000-02	.5300-01	536.5
122	160.00	.18000	77.000	.3650-01	.3020-01	.3650-01	.1094-02	.9044-03	.1094-02	.6680	5.317	543.9
122	175.00	.15000	81.330	.1520-01	.1260-01	.1520-01	.4547-03	.3760-03	.4547-03	.2790	2.005	541.6
122	175.00	.16500	79.000	.2380-01	.1970-01	.2380-01	.7135-03	.5899-03	.7135-03	.4370	3.245	542.6
122	175.00	.17500	79.000	.4520-01	.3740-01	.4520-01	.1355-02	.1119-02	.1355-02	.8260	5.935	544.8
121	180.00	.10000-01	59.000	.2259	.1857	.2259	.6754-02	.5551-02	.6754-02	3.955	29.39	562.3
121	180.00	.25000-01	60.000	.6820-01	.5630-01	.6820-01	.2040-02	.1684-02	.2040-02	1.236	8.864	548.0
121	180.00	.50000-01	61.000	.3110-01	.2570-01	.3110-01	.9291-03	.7678-03	.9291-03	.5670	3.607	543.8
121	180.00	.75000-01	62.000	.1530-01	.1270-01	.1530-01	.4583-03	.3747-03	.4583-03	.2810	1.788	541.6
121	180.00	.10000+00	63.000	.1040-01	.8500-02	.1040-01	.3096-03	.2551-03	.3096-03	.1900	1.247	540.3
121	180.00	.12500	64.000	.8200-02	.6800-02	.8200-02	.2459-03	.2035-03	.2459-03	.1510	1.054	539.6
121	180.00	.15000	65.000	.7900-02	.6600-02	.7900-02	.2375-03	.1965-03	.2375-03	.1460	1.020	538.7
121	180.00	.16000	66.000	.2350-01	.1940-01	.2350-01	.7012-03	.5799-03	.7012-03	.4300	2.398	540.6
121	180.00	.17000	67.000	.5730-01	.4740-01	.5730-01	.1714-02	.1416-02	.1714-02	1.045	5.819	544.0
121	180.00	.20000	69.000	.1340-01	.1110-01	.1340-01	.4015-03	.3322-03	.4015-03	.2470	1.531	539.1
121	180.00	.40100	72.000	.9000-02	.7400-02	.9000-02	.2685-03	.2221-03	.2685-03	.1650	1.404	539.4
121	180.00	.50000	73.000	.1030-01	.8500-02	.1030-01	.3089-03	.2556-03	.3089-03	.1900	1.614	539.8
121	180.00	.60100	74.000	.7500-02	.6200-02	.7500-02	.2257-03	.1868-03	.2257-03	.1390	1.144	538.7
121	180.00	.70100	75.000	.5400-02	.4500-02	.5400-02	.1618-03	.1340-03	.1618-03	.1000+00	.7960	537.6

(RV1802)

04-498 (AEDC V41B-57A) ORBITER FUSELAGE

FUSELAGE

PARAMETRIC DATA

ALPHA = 25.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
88	7.980	2.028	25.04	.0000	180.0	429.7	.4500-01	1279.	93.10	1.994	3774.	.4030-04
89	7.980	2.028	25.08	.0000	180.0	432.2	.4500-01	1286.	93.60	2.006	3783.	.4032-04
90	7.980	2.012	25.06	.0000	180.0	431.7	.4500-01	1290.	93.90	2.003	3789.	.4015-04

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF P=0.9	H/HREF R=1.0	H/HREF (TAW)	H19T01 BTU/ R FT2SEC	H1T01 BTU/ R FT2SEC	H1T01 BTU/ R FT2SEC	QOOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
88	0.000	1.0000	1.0000	.8335	.6759	.7009	.2883-01	.2337-01	.2424-01	15.81	85.51	603.0
88	0.0000	.5000-02	2.0000	.7520	.6072	.6154	.2601-01	.2100-01	.2128-01	13.95	93.77	614.9
88	0.0000	.1000-01	3.0000	.5729	.4656	.4892	.1981-01	.1610-01	.1692-01	11.00	72.35	596.3
88	0.0000	.2000-01	4.0000	.3626	.2975	.3261	.1254-01	.1029-01	.1128-01	7.329	40.35	566.9
88	0.0000	.3000-01	5.0000	.2637	.2168	.2427	.9119-02	.7498-02	.8395-02	5.397	29.83	559.5
88	0.0000	.4000-01	6.0000	.2130	.1754	.1990	.7368-02	.6067-02	.6883-02	4.397	24.36	554.6
88	0.0000	.5000-01	7.0000	.1945	.1598	.1835	.6727-02	.5527-02	.6347-02	3.955	26.53	562.0
88	0.0000	.6000-01	8.0000	.1828	.1586	.1833	.6668-02	.5485-02	.6341-02	3.956	25.01	553.1
88	0.0000	.7000-01	9.0000	.1613	.1327	.1546	.5579-02	.4588-02	.5345-02	3.304	22.83	559.1
88	0.0000	.8000-01	10.000	.1280	.1060	.1242	.4454-02	.3668-02	.4294-02	2.657	18.40	554.9
88	0.0000	.9000-01	11.000	.1205	.9930-01	.1166	.4167-02	.3434-02	.4034-02	2.495	15.81	552.8
88	0.0000	.1000+00	12.000	.1096	.9030-01	.1065	.3791-02	.3124-02	.3684-02	2.274	13.64	551.7
88	0.0000	.12000	14.000	.1052	.8660-01	.1028	.3639-02	.3002-02	.3556-02	2.196	12.21	548.0
88	0.0000	.13000	15.000	.9210-01	.7600-01	.9020-01	.3185-02	.2627-02	.3118-02	1.918	11.22	549.2
88	0.0000	.14000	16.000	.8110-01	.6690-01	.7950-01	.2803-02	.2313-02	.2748-02	1.691	10.74	548.3
88	0.0000	.15000	18.000	.8240-01	.6790-01	.8090-01	.2848-02	.2349-02	.2798-02	1.717	10.60	548.8
88	0.0000	.17000	19.000	.8290-01	.6840-01	.8150-01	.2867-02	.2365-02	.2820-02	1.727	10.36	549.0

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1802)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(GTO) BTU/R FT2SEC	H(TO) BTU/R FT2SEC	H(TAI) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEC/R /SEC	TW DEG.
88	.00000	.18000	20.000	.8270-01	.6820-01	.8140-01	.2860-02	.2359-02	.2816-02	1.723	10.94	549.0
88	.00000	.19000	21.000	.8750-01	.7220-01	.8620-01	.3025-02	.2496-02	.2982-02	1.829	11.62	546.9
88	.00000	.20000	22.000	.7990-01	.6260-01	.7490-01	.2624-02	.2165-02	.2590-02	1.584	10.06	547.5
88	.00000	.22500	23.000	.7060-01	.5820-01	.6980-01	.2440-02	.2014-02	.2415-02	1.477	9.393	546.1
88	.00000	.25000	801.00	.6860-01	.5660-01	.6800-01	.2373-02	.1959-02	.2352-02	1.437	9.141	545.7
88	.00000	.30000	802.00	.6290-01	.5190-01	.6240-01	.2175-02	.1838-02	.2157-02	1.318	8.380	545.7
88	.00000	.35000	803.00	.6440-01	.5310-01	.6380-01	.2227-02	.1838-02	.2203-02	1.345	8.543	547.7
88	.00000	.40000	804.00	.6250-01	.5240-01	.6300-01	.2198-02	.1813-02	.2179-02	1.325	8.666	548.3
88	.00000	.45000	805.00	.6040-01	.5030-01	.6090-01	.2088-02	.1722-02	.2070-02	1.258	8.469	549.1
88	.00000	.50000	806.00	.5330-01	.4440-01	.5340-01	.1864-02	.1537-02	.1848-02	1.119	7.762	551.2
88	.00000	.55000	807.00	.4560-01	.4030-01	.4920-01	.1715-02	.1413-02	.1701-02	1.026	7.568	553.1
88	.00000	.60000	808.00	.4500-01	.3710-01	.4460-01	.1566-02	.1282-02	.1542-02	.9310	6.880	553.1
88	.00000	.65000	809.00	.4230-01	.3480-01	.4190-01	.1463-02	.1205-02	.1450-02	.8740	6.457	553.9
88	.00000	.70000	810.00	.4450-01	.3340-01	.4010-01	.1401-02	.1154-02	.1389-02	.8370	6.401	553.7
88	.00000	.75000	811.00	.4610-01	.3540-01	.4260-01	.1485-02	.1223-02	.1472-02	.8890	6.576	552.5
88	.00000	.80000	812.00	.4420-01	.3600-01	.4570-01	.1594-02	.1314-02	.1581-02	.9570	7.080	551.3
88	.00000	.85000	813.00	.4440-01	.3660-01	.4440-01	.1534-02	.1265-02	.1537-02	.9240	7.076	549.4
88	.00000	.90000	814.00	.4130-01	.3410-01	.4140-01	.1427-02	.1178-02	.1433-02	.8660	6.220	544.7
88	.00000	.92500	815.00	.3730-01	.2750-01	.3350-01	.1153-02	.9527-03	.1160-02	.7030	5.804	541.8
88	.00000	.95000	816.00	.3190-01	.2540-01	.3220-01	.1103-02	.9118-03	.1113-02	.6740	5.573	540.1
88	.00000	.97500	817.00	.2930-01	.2430-01	.2970-01	.1015-02	.8393-03	.1026-02	.6210	5.136	539.4
88	.00000	1.0150	818.00	.1780-01	.1480-01	.1800-01	.6149-03	.5101-03	.6236-03	.3630	2.866	528.7
88	.00000	1.0300	819.00	.1650-01	.1540-01	.1890-01	.6438-03	.5343-03	.6528-03	.4020	3.009	527.4
88	.00000	1.0450	820.00	.1520-01	.1350-01	.1650-01	.5622-03	.4665-03	.5701-03	.3510	2.815	527.3
88	.00000	1.0600	821.00	.1320-01	.1100-01	.1340-01	.4566-03	.3789-03	.4630-03	.2850	2.416	527.3
88	.00000	1.0800	822.00	.1170-01	.9700-02	.1170-01	.4033-03	.3340-03	.4033-03	.2480	1.503	535.2
88	.00000	1.1000	823.00	.2310-01	.1920-01	.2310-01	.8000-03	.6629-03	.8000-03	.4950	3.081	532.7
88	.00000	1.1200	824.00	.4300-02	.3600-02	.4300-02	.1494-03	.1238-03	.1494-03	.9200-01	.5600	532.6
88	.00000	1.1400	825.00	.6780-01	.5550-01	.6720-01	.1494-03	.1238-03	.1494-03	1.406	11.14	552.1
88	.00000	1.1600	826.00	.6110-01	.5030-01	.6060-01	.2114-02	.1741-02	.2096-02	1.272	9.992	554.4
88	.00000	1.1800	827.00	.4030-01	.3320-01	.4000-01	.1394-02	.1148-02	.1382-02	.8310	7.369	554.9
88	.00000	1.2000	828.00	.4290-01	.3850-01	.4640-01	.1619-02	.1333-02	.1604-02	.9670	7.146	553.9
88	.00000	1.2200	829.00	.4770-01	.3930-01	.4730-01	.1648-02	.1359-02	.1634-02	.9900	7.328	550.8
88	.00000	1.2400	830.00	.3720-01	.3070-01	.3740-01	.1287-02	.1063-02	.1292-02	.7810	6.217	544.2
88	.00000	1.2600	831.00	.1777	.1467	.1777	.6168-02	.5094-02	.6168-02	3.760	22.00	547.8
88	.00000	1.2800	832.00	.1644	.1630-01	.1044	.3625-02	.2996-02	.3625-02	2.220	14.13	544.8
88	.00000	1.3000	833.00	.5360-01	.5360-01	.6500-01	.2247-02	.1854-02	.2247-02	1.356	10.05	548.1
88	.00000	1.3200	834.00	.6840-01	.5650-01	.6840-01	.2367-02	.1954-02	.2367-02	1.435	10.65	545.0
88	.00000	1.3400	835.00	.6710-01	.5550-01	.6710-01	.2322-02	.1921-02	.2322-02	1.424	10.60	538.2
88	.00000	1.3600	836.00	.2298	.1898	.2298	.7979-02	.6590-02	.7979-02	4.869	27.08	547.1
88	.00000	1.3800	837.00	.2360-01	.1950-01	.2360-01	.8168-03	.6768-03	.8168-03	5.050	3.144	533.0
88	.00000	1.4000	838.00	.1632	.1632	.1978	.6865-02	.5565-02	.6865-02	26.44	26.44	530.4
88	.00000	1.4200	839.00	.1208	.9970-01	.1208	.4192-02	.3460-02	.4192-02	2.546	22.62	550.1



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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISTO) BTU/ R FT2SEC	H(ITO) BTU/ R FT2SEC	H(IAW) BTU/ R FT2SEC	DOOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
88	30.000	.92500	970.00	.6050-01	.5000-01	.6050-01	.2093-02	.1730-02	.2093-02	1.276	9.483	541.9
88	30.000	.95000	974.00	.6590-01	.5450-01	.6590-01	.2280-02	.1884-02	.2280-02	1.387	10.31	542.8
88	30.000	.97500	979.00	.3470-01	.2880-01	.3470-01	.1200-02	.9962-03	.1200-02	.7490	5.608	527.5
89	31.500	.20000	108.00	.7780-01	.6430-01	.7780-01	.2702-02	.2332-02	.2702-02	1.651	16.70	546.3
88	32.000	.40000	831.00	.9010-01	.7420-01	.6930-01	.3114-02	.2567-02	.3087-02	1.870	12.98	550.9
88	32.000	.50000	832.00	.7250-01	.5970-01	.7190-01	.2508-02	.2065-02	.2486-02	1.497	10.70	554.4
88	32.000	.60000	833.00	.6440-01	.5300-01	.6380-01	.2227-02	.1833-02	.2207-02	1.327	8.909	555.4
88	32.000	.70000	834.00	.5090-01	.4190-01	.5050-01	.1762-02	.1451-02	.1747-02	1.050	8.020	555.5
88	32.000	.80000	835.00	.4320-01	.3560-01	.4280-01	.1495-02	.1232-02	.1482-02	.8980	6.435	550.4
88	32.000	.90000	836.00	.3780-01	.3120-01	.3800-01	.1308-02	.1081-02	.1313-02	.7950	5.909	543.2
88	32.000	.95000	837.00	.4340-01	.3590-01	.4380-01	.1502-02	.1242-02	.1515-02	.9190	7.074	539.7
88	32.000	.97500	838.00	.4150-01	.3440-01	.4200-01	.1435-02	.1188-02	.1452-02	.8830	7.058	535.8
88	32.000	1.0150	839.00	.2320-01	.1930-01	.2270-01	.8025-03	.6659-03	.7841-03	.5010	4.089	527.6
88	32.000	1.0300	840.00	.2510-01	.2080-01	.2450-01	.8684-03	.7210-03	.8485-03	.5430	4.288	525.7
88	32.000	1.0450	841.00	.2750-01	.2280-01	.2680-01	.9494-03	.7882-03	.9277-03	.5940	4.608	525.5
88	32.000	1.0600	842.00	.2290-01	.1900-01	.2240-01	.7928-03	.6584-03	.7747-03	.4970	4.140	524.7
89	35.000	.50000-01	115.00	.1433	.1185	.1433	.4973-02	.4112-02	.4973-02	3.055	19.46	543.0
89	35.000	.20000	110.00	.9070-01	.7480-01	.9070-01	.3148-02	.2598-02	.3148-02	1.912	19.31	549.8
89	39.000	1.0000+00	116.00	.1100	.9100-01	.1100	.3818-02	.3158-02	.3818-02	2.349	14.97	541.9
89	40.000	.76000-01	121.00	.7880-01	.6530-01	.7880-01	.2735-02	.2265-02	.2735-02	1.697	10.85	536.6
89	40.000	.15000	112.00	.1591	.1311	.1591	.5523-02	.4553-02	.5523-02	3.331	24.61	554.3
89	40.000	.20000	112.00	.8970-01	.7400-01	.8970-01	.3115-02	.2570-02	.3115-02	1.887	20.95	551.5
89	42.500	.50000-01	127.00	.1059	.8850-01	.1069	.3712-02	.3071-02	.3712-02	2.289	15.48	540.8
89	45.000	.15000	117.00	.8810-01	.7290-01	.8810-01	.3059-02	.2531-02	.3759-02	1.888	11.09	540.3
88	45.000	.92500	969.00	.1080-01	.9000-02	.1080-01	.3742-03	.3106-03	.3742-03	.2340	1.751	526.8
88	45.000	.95000	973.00	.2000-02	.1600-02	.2000-02	.6795-04	.5638-04	.6795-04	.4200-01	.3170	527.7
88	45.000	.97500	978.00	.2700-02	.2300-02	.2700-02	.9430-04	.7826-04	.9430-04	.5900-01	.4410	527.1
88	51.000	.20000	118.00	.4610-01	.3820-01	.4610-01	.1600-02	.1326-02	.1600-02	.9950	6.360	535.7
89	60.000	.50000-01	131.00	.4810-01	.3990-01	.4810-01	.1669-02	.1384-02	.1669-02	1.042	7.073	533.1
88	67.500	.20000	128.00	.2930-01	.2430-01	.2930-01	.1018-02	.8440-03	.1018-02	.6350	4.736	534.1
88	75.000	.97500	977.00	.2400-02	.2000-02	.2400-02	.8132-04	.6748-04	.8132-04	.5100-01	.3800	527.5
88	85.000	.97500	976.00	.4000-02	.3300-02	.4000-02	.1383-03	.1147-03	.1383-03	.8600-01	.6450	528.4
89	105.00	.40100	135.00	.1580-01	.1310-01	.1580-01	.5491-03	.4557-03	.5491-03	.3450	2.681	529.9
89	105.00	.50100	136.00	.3210-01	.2660-01	.3210-01	.1113-02	.9231-03	.1113-02	.6950	5.560	533.6
89	105.00	.60100	137.00	.4770-01	.3950-01	.4770-01	.1657-02	.1372-02	.1657-02	1.025	8.184	538.4
89	105.00	.70100	138.00	.1380-01	.1150-01	.1380-01	.4802-03	.3983-03	.4802-03	.3000	2.403	532.7
89	105.00	.80000	139.00	.4600-02	.3800-02	.4600-02	.1600-03	.1328-03	.1600-03	.1000+00	.8060	535.0
89	113.00	.60100	146.00	.3940-01	.3260-01	.3940-01	.1367-02	.1133-02	.1367-02	.8510	6.806	536.6
89	116.00	.60100	147.00	.4880-01	.4050-01	.4880-01	.1696-02	.1405-02	.1696-02	1.053	8.412	536.6
89	116.00	.75100	148.00	.2080-01	.1720-01	.2080-01	.7205-03	.5974-03	.7205-03	.4500	3.600	533.3
89	120.00	.10000+00	132.00	.1490-01	.1240-01	.1490-01	.5169-03	.4291-03	.5169-03	.3250	1.970	529.3
89	120.00	.80500	247.00	.1359	.1123	.1359	.4719-02	.3997-02	.4719-02	2.878	23.59	547.4
89	120.00	.82900	248.00	.1013	.8380-01	.1013	.3516-02	.2908-02	.3516-02	2.163	17.78	542.2

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NC	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H19T0) BTU/R FT2SEC	H1T0) BTU/R FT2SEC	H(TAN) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTDOT DEG. R /SEC	TW DEG. R
89	120.00	.86200	249.00	.03360-01	.5270-01	.6360-01	.2208-02	.1830-02	.2208-02	1.375	10.06	534.8
89	130.00	.80500	253.00	.1098	.9090-01	.1098	.3813-02	.3155-02	.3813-02	2.351	18.74	540.8
89	130.00	.82900	254.00	.6870-01	.5690-01	.6870-01	.2384-02	.1975-02	.2384-02	1.483	11.50	535.1
89	130.00	.86200	255.00	.3430-01	.2840-01	.3430-01	.1190-02	.9870-03	.1190-02	.7450	6.162	531.5
89	135.00	.40100	142.00	.1300-02	.1100-02	.1300-02	.4527-04	.3761-04	.4527-04	.2230	.2230	526.2
89	135.00	.50100	143.00	.2400-02	.2000-02	.2400-02	.8278-04	.6875-04	.8278-04	.5200-01	.4330	527.0
89	135.00	.60100	144.00	.5000-02	.4100-02	.5000-02	.1733-03	.1439-03	.1733-03	.1090	.8490	528.6
89	135.00	.70100	145.00	.5200-02	.4300-02	.5200-02	.1801-03	.1495-03	.1801-03	.1130	.9030	528.5
89	140.00	.18000	85.000	.8700-02	.7300-02	.8700-02	.3030-03	.2517-03	.3030-03	.1910	1.481	526.7
89	140.00	.19500	87.000	.1070-01	.8900-02	.1070-01	.3702-03	.3073-03	.3702-03	.2330	1.801	528.9
89	145.00	.80500	259.00	.4780-01	.3970-01	.4780-01	.1661-02	.1378-02	.1661-02	1.039	8.077	531.7
90	145.00	.82900	260.00	.1990-01	.1650-01	.1990-01	.6900-03	.5732-03	.6900-03	.4370	3.300	538.3
89	145.00	.86200	261.00	.5500-02	.4600-02	.5500-02	.1919-03	.1595-03	.1919-03	.1220	1.011	526.2
89	150.00	.16000	86.000	.1150-01	.9500-02	.1150-01	.3983-03	.3306-03	.3983-03	.2500	1.873	529.1
89	150.00	.18000	84.000	.2160-01	.1800-01	.2160-01	.7514-03	.6235-03	.7514-03	.4710	3.524	530.3
89	150.00	.19000	82.000	.4000-03	.3000-03	.4000-03	.1349-04	.1119-04	.1349-04	.8000-02	.6300-01	530.6
89	155.00	.16000	80.000	.1180-01	.9800-02	.1180-01	.4104-03	.3407-03	.4104-03	.2580	1.931	528.6
89	160.00	.18000	77.000	.3650-01	.3030-01	.3650-01	.1268-02	.1051-02	.1268-02	.7900	6.314	534.4
89	175.00	.15000	81.000	.1750-01	.1450-01	.1750-01	.6065-03	.5033-03	.6065-03	.3800	2.752	530.4
89	175.00	.16500	79.000	.2640-01	.2190-01	.2640-01	.9181-03	.7616-03	.9181-03	.5750	4.295	531.4
89	175.00	.17500	78.000	.5060-01	.4190-01	.5060-01	.1757-02	.1456-02	.1757-02	1.094	7.895	535.0
88	180.00	.10000-01	59.000	.2268	.1863	.2268	.7842-02	.6443-02	.7842-02	4.621	34.00	562.2
88	180.00	.25000-01	60.000	.6790-01	.5600-01	.6790-01	.2347-02	.1938-02	.2347-02	1.422	10.22	545.4
88	180.00	.50000-01	61.000	.3070-01	.2540-01	.3070-01	.1063-02	.8793-03	.1063-02	.6500	4.148	539.8
88	180.00	.75000-01	62.000	.1560-01	.1290-01	.1560-01	.5403-03	.472-03	.5403-03	.3320	2.121	537.0
88	180.00	.10000+00	63.000	.9800-02	.8100-02	.9800-02	.3390-03	.2807-03	.3390-03	.2090	1.374	535.5
88	180.00	.12500	64.000	.8000-02	.6600-02	.8000-02	.2751-03	.2279-03	.2751-03	.1700	1.168	534.4
88	180.00	.15000	65.000	.8300-02	.6800-02	.8300-02	.2857-03	.2367-03	.2857-03	.1770	1.237	533.0
88	180.00	.16000	66.000	.2950-01	.2440-01	.2950-01	.1019-02	.8433-03	.1019-02	.6270	3.506	535.9
88	180.00	.17000	67.000	.5910-01	.4890-01	.5910-01	.2045-02	.1692-02	.2045-02	1.254	7.002	538.3
88	180.00	.20000	69.000	.1300-01	.1080-01	.1300-01	.4497-03	.3727-03	.4497-03	.2790	1.735	531.8
88	180.00	.40100	72.000	.1050-01	.8700-02	.1050-01	.3624-03	.3004-03	.3624-03	.2250	1.923	530.9
88	180.00	.50000	73.000	.1080-01	.8900-02	.1080-01	.3719-03	.3084-03	.3719-03	.2310	1.975	530.7
88	180.00	.60100	74.000	.6900-02	.5700-02	.6900-02	.2369-03	.1965-03	.2369-03	.1470	1.219	530.1
88	180.00	.70100	75.000	.4800-02	.4000-02	.4800-02	.1664-03	.1380-03	.1664-03	.1030	.8300	529.6

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1802)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 25.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PQ PSI	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
70	7.990	2.527	25.08	.0000	180.0	546.9	.5600-01	1294.	94.00	2.524	3795.	.5040-04
71	7.990	2.486	25.01	.0000	180.0	547.1	.5600-01	1309.	95.10	2.525	3817.	.4985-04
72	7.990	2.486	25.03	.0000	180.0	548.3	.5700-01	1311.	95.20	2.530	3820.	.4988-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
70	.7569-07	.3899-01	0.0175
71	.7655-07	.3907-01	.2584-01
72	.7666-07	.3912-01	.2593-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QOOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
70	.00000	.00000	1.0000	.8482	.6863	.7120	.3307-01	.2676-01	.2776-01	18.15	97.51	616.2
70	.00000	.50000-02	2.0000	.7487	.6028	.6110	.2919-01	.2350-01	.2382-01	15.61	104.2	630.1
70	.00000	.10000-01	3.0000	.5882	.4772	.5015	.2293-01	.1860-01	.1955-01	12.76	83.42	608.6
70	.00000	.20000-01	4.0000	.3623	.2971	.3257	.1412-01	.1158-01	.1270-01	8.337	45.73	574.7
70	.00000	.30000-01	5.0000	.2585	.2125	.2379	.1008-01	.0886-02	.9274-02	6.037	33.26	565.8
70	.00000	.40000-01	6.0000	.2087	.1719	.1950	.8137-02	.6703-02	.7601-02	4.921	27.19	560.2
70	.00000	.50000-01	7.0000	.1990	.1635	.1877	.7757-02	.6373-02	.7316-02	4.626	30.84	568.6
70	.00000	.60000-01	8.0000	.1953	.1607	.1857	.7615-02	.6265-02	.7241-02	4.575	28.83	564.3
70	.00000	.70000-01	9.0000	.1677	.1379	.1607	.6539-02	.5377-02	.6264-02	3.920	26.99	565.5
70	.00000	.80000-01	10.000	.1313	.1081	.1265	.5118-02	.4215-02	.4932-02	3.094	21.37	560.3
70	.00000	.90000-01	11.000	.1172	.0970-01	.1134	.4569-02	.3768-02	.4423-02	2.782	17.60	556.2
70	.00000	.10000+00	12.000	.1079	.8900-01	.1049	.4207-02	.3469-02	.4088-02	2.559	15.31	556.9
70	.00000	.12000	14.000	.9100-01	.7510-01	.8890-01	.3548-02	.2929-02	.3467-02	2.173	12.05	552.4
70	.00000	.13000	15.000	.8940-01	.7370-01	.8750-01	.3484-02	.2875-02	.3410-02	2.128	12.41	554.1
70	.00000	.14000	16.000	.8200-01	.6770-01	.8030-01	.3196-02	.2637-02	.3132-02	1.955	12.39	553.2
70	.00000	.16000	18.000	.8460-01	.6980-01	.8310-01	.3297-02	.2721-02	.3238-02	2.015	12.40	553.9
70	.00000	.17000	19.000	.8300-01	.6850-01	.8160-01	.3235-02	.2669-02	.3181-02	1.975	12.50	554.5

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AEDC VKI V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1802)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QOOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
70	.00000	.18000	20.000	.8060-01	.6650-01	.7930-01	.3142-02	.2533-02	.3093-02	1.918	12.15	554.5
70	.00000	.19000	21.000	.7930-01	.6550-01	.7820-01	.3092-02	.2533-02	.3093-02	1.895	12.01	552.2
70	.00000	.20000	22.000	.7830-01	.6460-01	.7730-01	.3052-02	.2519-02	.3012-02	1.866	11.82	553.5
70	.00000	.22500	23.000	.7360-01	.6080-01	.7280-01	.2869-02	.2319-02	.2839-02	1.759	11.15	551.7
70	.00000	.25000	25.000	.6910-01	.5710-01	.6850-01	.2694-02	.2224-02	.2670-02	1.652	10.48	551.6
70	.00000	.30000	30.000	.6270-01	.5180-01	.6220-01	.2445-02	.2019-02	.2424-02	1.500	9.513	551.5
70	.00000	.35000	35.000	.6410-01	.5290-01	.6350-01	.2499-02	.2062-02	.2477-02	1.527	9.673	553.9
70	.00000	.40000	40.000	.6250-01	.5160-01	.6190-01	.2436-02	.2010-02	.2415-02	1.487	9.692	554.6
70	.00000	.45000	45.000	.5800-01	.4780-01	.5740-01	.2260-02	.1864-02	.2240-02	1.377	9.240	555.8
70	.00000	.50000	50.000	.5330-01	.4390-01	.5280-01	.2078-02	.1713-02	.2059-02	1.264	8.742	556.8
70	.00000	.60000	60.000	.4510-01	.3720-01	.4470-01	.1760-02	.1420-02	.2001-02	1.224	9.019	558.8
70	.00000	.65000	65.000	.4420-01	.3540-01	.4380-01	.1725-02	.1420-02	.1709-02	1.065	7.849	559.6
70	.00000	.70000	70.000	.4310-01	.3550-01	.4270-01	.1679-02	.1383-02	.1664-02	1.014	7.727	560.9
70	.00000	.75000	75.000	.4660-01	.3840-01	.4620-01	.1816-02	.1496-02	.1799-02	1.098	8.088	560.3
70	.00000	.80000	80.000	.5460-01	.4500-01	.5410-01	.2127-02	.1752-02	.2108-02	1.289	9.499	559.0
70	.00000	.813.0	81.3.0	.5430-01	.4470-01	.5440-01	.2116-02	.1744-02	.2120-02	1.285	9.803	557.7
70	.00000	.814.00	81.4.00	.5220-01	.4310-01	.5240-01	.2036-02	.1680-02	.2044-02	1.245	8.908	553.2
70	.00000	.825.00	82.5.00	.4320-01	.3570-01	.4350-01	.1683-02	.1390-02	.1694-02	1.034	8.507	550.5
70	.00000	.816.00	81.6.00	.4230-01	.3500-01	.4270-01	.1650-02	.1364-02	.1665-02	1.016	8.364	549.2
70	.00000	.817.00	81.7.00	.4230-01	.3500-01	.4280-01	.1651-02	.1364-02	.1669-02	1.0	8.362	549.3
70	.00000	.819.00	81.9.00	.2730-01	.2270-01	.2770-01	.1065-02	.8831-03	.1080-02	6.680	4.977	537.9
70	.00000	.820.00	82.0.00	.2640-01	.2190-01	.2680-01	.1124-02	.8547-03	.1045-02	6.480	5.171	536.8
70	.00000	.821.00	82.1.00	.2340-01	.1940-01	.2370-01	.9107-03	.7551-03	.9235-03	5.720	4.827	536.8
70	.00000	.89.600	89.600	.1130-01	.9400-02	.1130-01	.4417-03	.3660-03	.4417-03	2.760	1.667	539.6
70	.00000	.91.000	91.000	.2350-01	.1950-01	.2350-01	.9162-03	.7595-03	.9162-03	5.750	3.568	537.8
70	.00000	.90.000	90.000	.2600-02	.2100-02	.2600-02	.1001-03	.8302-04	.1001-03	6.300-01	3.800	537.1
70	.00000	.823.00	823.00	.6570-01	.5410-01	.6510-01	.2561-02	.2110-02	.2538-02	1.551	12.24	559.4
70	.00000	.824.00	824.00	.6160-01	.5070-01	.6100-01	.2400-02	.1976-02	.2379-02	1.448	11.42	561.9
70	.00000	.825.00	825.00	.4200-01	.3460-01	.4160-01	.1637-02	.1348-02	.1623-02	9.880	8.731	561.4
70	.00000	.826.00	826.00	.4570-01	.3760-01	.4520-01	.1780-02	.1465-02	.1764-02	1.073	7.896	562.1
70	.00000	.827.00	827.00	.5620-01	.4300-01	.5170-01	.2036-02	.1677-02	.2017-02	1.235	9.101	558.5
70	.00000	.828.00	828.00	.4310-01	.3560-01	.4330-01	.1681-02	.1387-02	.1687-02	1.029	8.153	552.7
71	.00000	.10000+00	103.00	.1791	.1479	.1791	.6998-02	.5779-02	.6998-02	4.342	25.28	557.7
71	.00000	.15000	104.00	.1046	.8650-01	.1046	.4085-02	.3379-02	.4085-02	2.560	16.24	551.4
70	.00000	.92500	971.00	.7210-01	.5940-01	.7210-01	.2812-02	.2318-02	.2812-02	1.707	12.59	558.0
70	.00000	.95000	975.00	.7560-01	.6230-01	.7560-01	.2947-02	.2418-02	.2947-02	1.795	13.25	555.9
70	.00000	.97500	980.00	.7180-01	.5930-01	.7180-01	.2797-02	.2311-02	.2797-02	1.722	12.76	543.2
71	.00000	.50000-01	105.00	.2265	.1869	.2265	.8849-02	.7303-02	.8849-02	5.473	30.24	559.7
70	.00000	.20000	93.000	.2510-01	.2080-01	.2510-01	.9769-03	.8097-03	.9769-03	6.120	3.799	538.3
71	.24.500	.10000+00	106.00	.1928	.1590	.1928	.7531-02	.6213-02	.7531-02	4.644	29.30	561.5
71	.25.500	.15000	107.00	.1223	.1009	.1223	.4776-02	.3942-02	.4776-02	2.954	26.11	559.7

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT/SEC	H(10) BTU/ R FT/SEC	H(TAN) BTU/ R FT/SEC	QDOT BTU/ FT/SEC	DTWDT DEG. R /SEC	TW DEG. R
70	30.000	.92500	970.00	.6400-01	.5290-01	.6400-01	.2496-02	.2061-02	.2496-02	1.531	11.33	551.6
70	30.000	.95000	974.00	.7590-01	.6260-01	.7590-01	.2957-02	.2440-02	.2957-02	1.806	13.34	554.3
70	30.000	.97500	979.00	.3660-01	.3040-01	.3660-01	.1428-02	.1184-02	.1428-02	.8970	6.682	537.2
71	31.500	.20000	108.00	.8060-01	.6660-01	.8060-01	.3150-02	.2603-02	.3150-02	1.963	19.77	554.8
70	32.000	.40000	831.00	.8840-01	.7280-01	.8760-01	.3446-02	.2840-02	.3415-02	2.090	14.45	558.5
70	32.000	.50000	832.00	.7300-01	.6010-01	.7230-01	.2846-02	.2343-02	.2820-02	1.715	12.22	562.2
70	32.000	.60000	833.00	.6230-01	.5130-01	.6170-01	.2429-02	.1999-02	.2407-02	1.462	9.777	563.0
70	32.000	.70000	834.00	.5680-01	.4680-01	.5630-01	.2215-02	.1833-02	.2195-02	1.334	10.15	562.5
70	32.000	.80000	835.00	.4590-01	.3780-01	.4550-01	.1789-02	.1474-02	.1773-02	1.084	7.736	558.8
70	32.000	.90000	836.00	.4240-01	.3500-01	.4260-01	.1653-02	.1365-02	.1660-02	1.013	7.488	552.5
70	32.000	.95000	837.00	.4960-01	.4100-01	.5010-01	.1935-02	.1599-02	.1952-02	1.192	9.136	548.8
70	32.000	.97500	838.00	.4920-01	.3990-01	.4860-01	.1880-02	.1555-02	.1901-02	1.164	9.256	545.7
70	32.000	1.0150	839.00	.2740-01	.2270-01	.2670-01	.1067-02	.8648-03	.1043-02	.6700	5.443	537.5
70	32.000	1.0300	840.00	.2260-01	.2390-01	.2820-01	.1125-02	.9328-03	.1099-02	.7080	5.557	535.6
70	32.000	1.0450	841.00	.3080-01	.2560-01	.3010-01	.1202-02	.9958-03	.1174-02	.7570	5.837	535.5
70	32.000	1.0600	842.00	.2690-01	.2230-01	.2630-01	.1048-02	.8698-03	.1024-02	.6610	5.481	534.5
71	35.000	.50000-01	115.00	.1444	.1193	.1444	.5641-02	.4662-02	.5641-02	3.517	22.26	554.7
71	35.000	.20000	110.00	.8770-01	.7240-01	.8770-01	.3425-02	.2827-02	.3425-02	2.122	21.34	558.4
71	35.000	.10000+00	116.00	.1106	.9160-01	.1106	.4320-02	.3577-02	.4320-02	2.716	17.24	549.7
71	40.000	.76000-01	121.00	.7950-01	.6580-01	.7950-01	.3104-02	.2571-02	.3104-02	1.959	12.45	547.0
71	40.000	.15000	111.00	.1572	.1296	.1572	.6142-02	.5052-02	.6142-02	3.768	27.69	564.7
71	40.000	.20000	112.00	.8780-01	.7240-01	.8780-01	.3429-02	.2829-02	.3429-02	2.116	23.37	561.0
71	42.500	.50000-01	127.00	.1091	.9030-01	.1091	.4264-02	.3528-02	.4264-02	2.674	17.99	551.0
71	45.000	.15000	117.00	.8770-01	.7270-01	.8770-01	.3428-02	.2839-02	.3428-02	2.162	12.66	547.3
70	45.000	.92500	969.00	.1240-01	.1030-01	.1240-01	.4832-03	.4010-03	.4832-03	.3050	2.279	533.2
70	45.000	.95000	973.00	.2300-02	.1900-02	.2300-02	.8824-04	.7324-04	.8824-04	.5600-01	.4170	532.8
70	45.000	.97500	978.00	.3300-02	.2800-02	.3300-02	.1297-03	.1077-03	.1297-03	.8200-01	.6130	532.5
71	51.000	.20000	118.00	.4640-01	.3850-01	.4640-01	.1814-02	.1504-02	.1814-02	1.153	7.349	542.2
71	60.000	.50000-01	131.00	.4670-01	.3870-01	.4670-01	.1826-02	.1514-02	.1826-02	1.160	7.841	542.4
71	67.500	.20000	128.00	.3060-01	.2550-01	.3060-01	.1203-02	.9974-03	.1203-02	.7650	5.701	540.6
70	75.000	.97500	977.00	.3000-02	.2500-02	.3000-02	.1189-03	.9869-04	.1189-03	.7500-01	.5510	532.9
70	85.000	.40100	135.00	.1650-01	.1370-01	.1650-01	.6450-03	.5357-03	.6450-03	.4140	3.204	537.0
71	105.00	.50100	136.00	.2890-01	.2400-01	.2890-01	.1130-02	.9374-03	.1130-02	.7200	5.744	540.5
71	105.00	.60100	137.00	.5670-01	.4700-01	.5670-01	.2216-02	.1836-02	.2216-02	1.398	11.10	547.3
71	105.00	.70100	138.00	.1590-01	.1320-01	.1590-01	.6231-03	.5171-03	.6231-03	.3980	3.176	539.2
71	105.00	.80000	139.00	.5500-02	.4600-02	.5500-02	.2141-03	.1779-03	.2141-03	.1380	1.101	535.2
71	113.00	.60100	146.00	.3460-01	.2870-01	.3460-01	.1352-02	.1122-02	.1352-02	.8610	6.861	541.3
71	116.00	.60100	147.00	.4470-01	.3710-01	.4470-01	.1747-02	.1448-02	.1747-02	1.109	8.831	543.0
71	116.00	.75100	148.00	.2370-01	.1970-01	.2370-01	.9263-03	.7682-03	.9263-03	.5890	4.695	541.8
71	120.00	.10000+00	132.00	.1550-01	.1280-01	.1550-01	.6037-03	.5014-03	.6037-03	.3870	2.339	536.9
71	120.00	.80500	247.00	.1476	.1218	.1476	.5769-02	.4758-02	.5769-02	3.558	28.51	561.3
71	120.00	.82500	248.00	.1195	.9680-01	.1195	.4670-02	.3859-02	.4670-02	2.907	23.71	555.7

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(14M) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTAOT DEG. R /SEC	TW DEG. R
71	120.00	.86200	249.00	.6460-01	.5360-01	.6460-01	.2523-02	.2092-02	.2523-02	1.604	11.67	542.6
71	130.00	.80500	253.00	.9830-01	.8130-01	.9830-01	.3840-02	.3178-02	.3840-02	2.414	19.14	549.4
71	130.00	.82300	254.00	.5830-01	.4830-01	.5830-01	.2278-02	.1889-02	.2278-02	1.446	11.16	543.3
71	130.00	.86200	255.00	.2930-01	.2430-01	.2930-01	.1145-02	.9504-03	.1145-02	6.037	6.337	538.2
71	135.00	.40100	142.00	.1100-02	.9000-03	.1100-02	.4418-04	.3673-04	.4418-04	.2900-01	2.220	532.5
71	135.00	.50100	143.00	.2700-02	.2200-02	.2700-02	.1057-03	.8789-04	.1057-03	.6800-01	.5630	533.5
71	135.00	.60100	144.00	.5200-02	.4300-02	.5200-02	.2042-03	.1697-03	.2042-03	.1310	1.020	534.3
71	135.00	.70100	145.00	.5900-02	.4900-02	.5900-02	.2321-03	.1928-03	.2321-03	1.194	1.194	534.8
71	140.00	.18000	85.000	.1360-01	.1130-01	.1360-01	.5302-03	.4406-03	.5302-03	.3410	2.634	534.5
71	140.00	.19500	87.003	.1240-01	.1030-01	.1240-01	.4839-03	.4020-03	.4839-03	.3110	2.397	536.0
71	145.00	.80500	259.00	.4550-01	.3780-01	.4550-01	.1778-02	.1475-02	.1778-02	1.133	8.762	540.6
72	145.00	.82900	260.00	.7700-02	.6400-02	.7700-02	.2396-03	.2489-03	.2396-03	1.930	1.450	536.3
72	145.00	.86200	261.00	.5300-02	.4400-02	.5300-02	.2062-03	.1714-03	.2062-03	.1330	1.103	532.9
71	150.00	.16000	86.000	.1250-01	.1040-01	.1250-01	.4878-03	.4051-03	.4878-03	.3130	2.333	536.5
71	150.00	.18000	84.000	.2290-01	.1900-01	.2290-01	.8927-03	.7411-03	.8927-03	.5710	4.255	538.1
71	150.00	.19000	82.000	.6000-03	.5000-03	.6000-03	.2429-04	.2019-04	.2429-04	.1600-01	1.170	532.3
71	155.00	.16000	80.000	.1290-01	.1070-01	.1290-01	.5035-03	.4182-03	.5035-03	.3230	2.408	536.6
71	155.00	.18000	83.000	.2000-03	.2000-03	.2000-03	.7799-05	.6485-05	.7799-05	.5000-02	.3800-01	532.0
71	160.00	.18000	77.000	.4090-01	.3390-01	.4090-01	.1598-02	.1325-02	.1598-02	1.015	8.084	542.9
71	175.00	.15000	81.000	.1930-01	.1600-01	.1930-01	.7527-03	.6249-03	.7527-03	.4820	3.471	538.3
71	175.00	.16500	79.000	.2840-01	.2350-01	.2840-01	.9193-03	.8193-03	.9193-03	.7070	5.261	539.9
71	175.00	.17500	78.000	.5450-01	.4520-01	.5450-01	.2130-02	.1766-02	.2130-02	1.352	9.717	543.6
70	180.00	.10000-01	59.000	.2234	.1835	.2234	.8708-02	.7154-02	.8708-02	5.190	38.06	569.1
70	180.00	.25000-01	60.000	.6730-01	.5560-01	.6730-01	.2624-02	.2168-02	.2624-02	1.615	11.57	549.6
70	180.00	.50000-01	61.000	.2990-01	.2480-01	.2990-01	.1166-02	.9652-03	.1166-02	.7250	4.615	543.5
70	180.00	.75000-01	62.000	.1460-01	.1210-01	.1460-01	.5705-03	.4725-03	.5705-03	.3560	2.271	540.7
70	180.00	.10000+00	63.000	.9700-02	.8000-02	.9700-02	.3777-03	.3129-03	.3777-03	.2360	1.551	539.7
70	180.00	.12500	64.000	.7700-02	.6400-02	.7700-02	.2996-03	.2446-03	.2996-03	.1880	1.311	538.6
70	180.00	.15000	65.000	.7600-02	.6300-02	.7600-02	.2950-03	.2446-03	.2950-03	.1850	1.293	537.6
70	180.00	.16000	66.000	.3160-01	.2620-01	.3160-01	.1232-02	.1020-02	.1232-02	.7680	4.286	541.1
70	180.00	.17000	67.000	.5840-01	.4830-01	.5840-01	.2276-02	.1884-02	.2276-02	1.415	7.884	543.2
70	180.00	.20000	69.000	.1280-01	.1060-01	.1280-01	.4987-03	.4135-03	.4987-03	.3130	1.947	536.6
70	180.00	.40100	72.000	.1340-01	.1110-01	.1340-01	.5241-03	.4346-03	.5241-03	.3290	2.809	536.4
70	180.00	.50000	73.000	.1260-01	.1050-01	.1260-01	.4920-03	.4080-03	.4920-03	.3090	2.636	536.5
70	180.00	.60100	74.000	.6800-02	.5600-02	.6800-02	.2646-03	.2195-03	.2646-03	.1670	1.375	535.6
70	180.00	.70100	75.000	.4100-02	.3400-02	.4100-02	.1609-03	.1335-03	.1609-03	.1010	.8110	534.9

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## FUSELAGE

## PARAMETRIC DATA

ALPHA = 25.00 BETA = .0000 ELEVTR = .0000 SPDRBK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
49	7.990	2.979	25.04	.0000	180.0	673.5	7000-01	1333.	96.80	3.108	3852.	.6027-04
50	7.990	2.946	24.99	.0000	180.0	673.6	7000-01	1343.	97.50	3.108	3867.	.5983-04
51	7.990	2.964	25.02	.0000	180.0	674.3	7000-01	1338.	97.20	3.112	3860.	.6009-04

RUN NUMBER	MACH	LB-SEC /FT2	ST FR R =
49	.7795-07	.4348-01	0.0175
50	.7852-07	.4354-01	.2354-01
51	.7827-07	.4354-01	.2359-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAN) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTMDT DEG. R /SEC	TM DEG. R
49	.00000	.00000	1.0000	.8513	.6919	.7172	.3702-01	.3009-01	.3119-01	21.41	114.8	621.2
49	.00000	.50000-02	2.0000	.7488	.6053	.6134	.3256-01	.2632-01	.2667-01	18.31	121.7	637.4
49	.00000	.10000-01	3.0000	.5971	.4866	.5109	.2596-01	.2116-01	.2222-01	15.24	99.42	612.8
49	.00000	.20000-01	4.0000	.3631	.2994	.3275	.1579-01	.1302-01	.1424-01	9.890	54.28	573.2
49	.00000	.30000-01	5.0000	.2607	.2156	.2406	.1134-01	.09374-02	.1046-01	7.218	39.82	563.0
49	.00000	.40000-01	6.0000	.2093	.1733	.1959	.9100-02	.7538-02	.8520-02	5.852	32.39	556.6
49	.00000	.50000-01	7.0000	.1922	.1588	.1816	.8358-02	.6903-02	.7898-02	5.288	35.29	567.0
49	.00000	.60000-01	8.0000	.1929	.1596	.1837	.8390-02	.6939-02	.7990-02	5.348	33.73	562.3
49	.00000	.70000-01	9.0000	.1627	.1345	.1561	.7074-02	.5847-02	.6786-02	4.495	30.98	564.2
49	.00000	.80000-01	10.000	.1296	.1073	.1251	.5637-02	.4667-02	.5440-02	3.613	24.97	558.7
49	.00000	.90000-01	11.000	.1215	.1007	.1177	.5284-02	.4380-02	.5120-02	3.412	21.61	554.0
49	.00000	.10000+00	12.000	.1103	.9150-01	.1073	.4797-02	.3977-02	.4666-02	3.101	18.59	553.1
49	.00000	.12000	14.000	.1070	.8870-01	.1046	.4652-02	.3859-02	.4549-02	3.019	16.76	550.6
49	.00000	.13000	15.000	.9120-01	.7560-01	.8930-01	.3965-02	.3288-02	.3884-02	2.565	14.97	552.7
49	.00000	.14000	16.000	.8270-01	.6860-01	.8110-01	.3596-02	.2982-02	.3527-02	2.328	14.76	552.2
49	.00000	.16000	18.000	.8470-01	.7020-01	.8330-01	.3685-02	.3054-02	.3621-02	2.379	14.65	553.9
49	.00000	.17000	19.000	.8280-01	.6870-01	.8150-01	.3603-02	.2985-02	.3545-02	2.323	14.70	555.0

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## AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1802)

## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(ISTO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	H(TAM) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTROT DEG. R /SEC	TH DEG. R
49	.00000	.18000	20.000	.8190-01	.6790-01	.8070-01	.3563-02	.2952-02	.3509-02	2.296	14.53	555.4
49	.00000	.19000	21.000	.8080-01	.6700-01	.7970-01	.3513-02	.2912-02	.3464-02	2.270	14.58	553.5
49	.00000	.20000	22.000	.7830-01	.6490-01	.7730-01	.3404-02	.2821-02	.3361-02	2.194	13.89	553.1
49	.00000	.22500	23.000	.7170-01	.5950-01	.7100-01	.3120-02	.2586-02	.3088-02	2.013	12.74	554.5
49	.00000	.25000	801.00	.7000-01	.5800-01	.6950-01	.3046-02	.2524-02	.3020-02	1.964	12.45	554.9
49	.00000	.30000	802.00	.6250-01	.5180-01	.6200-01	.2718-02	.2252-02	.2695-02	1.750	11.08	555.8
49	.00000	.35000	803.00	.6360-01	.5260-01	.6300-01	.2764-02	.2288-02	.2741-02	1.768	11.16	560.1
49	.00000	.40000	804.00	.6260-01	.5180-01	.6200-01	.2721-02	.2251-02	.2698-02	1.735	11.27	552.0
49	.00000	.45000	805.00	.5710-01	.4720-01	.5660-01	.2485-02	.2054-02	.2463-02	1.578	10.55	564.4
49	.00000	.50000	806.00	.5250-01	.4340-01	.5210-01	.2285-02	.1887-02	.2265-02	1.446	9.954	566.7
49	.00000	.55000	807.00	.5120-01	.4230-01	.5080-01	.2227-02	.1838-02	.2208-02	1.402	10.28	570.1
49	.00000	.60000	808.00	.4780-01	.3940-01	.4740-01	.2078-02	.1714-02	.2060-02	1.306	9.567	571.1
49	.00000	.65000	809.00	.4510-01	.3720-01	.4470-01	.1962-02	.1618-02	.1945-02	1.229	8.989	573.6
49	.00000	.70000	810.00	.4800-01	.3950-01	.4760-01	.2086-02	.1719-02	.2068-02	1.303	9.858	575.0
49	.00000	.75000	811.00	.5460-01	.4500-01	.5420-01	.2376-02	.1958-02	.2355-02	1.484	10.85	575.3
49	.00000	.80000	812.00	.6660-01	.5650-01	.6800-01	.2983-02	.2458-02	.2957-02	1.862	13.62	575.3
49	.00000	.85000	813.00	.7190-01	.5930-01	.7210-01	.3128-02	.2579-02	.3135-02	1.957	14.80	574.2
49	.00000	.90000	814.00	.7240-01	.5980-01	.7270-01	.3150-02	.2600-02	.3162-02	1.988	14.12	560.4
49	.00000	.92500	815.00	.5920-01	.4890-01	.5910-01	.2712-02	.2242-02	.2736-02	1.726	14.11	563.2
49	.00000	.95000	816.00	.6240-01	.5160-01	.6290-01	.2865-02	.2369-02	.2898-02	1.824	14.50	563.1
49	.00000	.97500	817.00	.6590-01	.5450-01	.6670-01	.1911-02	.1587-02	.1938-02	1.249	9.266	546.0
49	.00000	1.0150	818.00	.4390-01	.3650-01	.4460-01	.1883-02	.1565-02	.1909-02	1.235	9.174	543.7
49	.00000	1.0300	819.00	.4330-01	.3600-01	.4390-01	.1883-02	.1565-02	.1909-02	1.235	9.174	543.7
49	.00000	1.0450	820.00	.4260-01	.3540-01	.4320-01	.1852-02	.1539-02	.1878-02	1.214	9.656	544.3
49	.00000	1.0600	821.00	.4050-01	.3370-01	.4110-01	.1763-02	.1465-02	.1787-02	1.157	9.730	543.3
49	.00000	1.15000	89.000	.1140-01	.9500-02	.1140-01	.4954-03	.4127-03	.4954-03	.3300	1.994	534.5
49	10.000	.15000	91.000	.2640-01	.2200-01	.2640-01	.1149-02	.9570-03	.1149-02	.7620	4.737	536.2
49	11.500	.20000	91.000	.9000-02	.7500-02	.9000-02	.3903-03	.3253-03	.3903-03	.2600	1.576	533.0
49	14.000	.50000-01	92.000	.6540-01	.5400-01	.6480-01	.2842-02	.2347-02	.2817-02	1.797	14.13	567.3
49	17.500	.40000	823.00	.6150-01	.5070-01	.6100-01	.2674-02	.2206-02	.2651-02	1.678	13.17	572.1
49	17.500	.50000	824.00	.4190-01	.3450-01	.4150-01	.1820-02	.1501-02	.1804-02	1.140	10.01	573.2
49	17.500	.60000	825.00	.5400-01	.4450-01	.5350-01	.2347-02	.1933-02	.2326-02	1.463	10.69	576.2
49	17.500	.70000	826.00	.6360-01	.5240-01	.6300-01	.2764-02	.2279-02	.2740-02	1.730	12.66	573.7
49	17.500	.80000	827.00	.6000-01	.4960-01	.6030-01	.2611-02	.2157-02	.2621-02	1.652	13.00	566.8
49	17.500	.90000	828.00	.1777	.1471	.1777	.7740-02	.6405-02	.7740-02	4.887	28.94	564.2
50	20.000	.10000+00	103.00	.1048	.8690-01	.1048	.4565-02	.3784-02	.4565-02	2.972	18.79	557.5
50	20.000	.15000	104.00	.7690-01	.6340-01	.7690-01	.3342-02	.2759-02	.3342-02	2.106	15.44	569.7
49	20.000	.92500	971.00	.8800-01	.7270-01	.8800-01	.3828-02	.3162-02	.3828-02	2.424	17.80	566.4
49	20.000	.95000	975.00	.8020-01	.6640-01	.8020-01	.3488-02	.2887-02	.3488-02	2.233	16.45	559.4
49	20.000	.97500	980.00	.2253	.1864	.2253	.9811-02	.8116-02	.9811-02	6.310	34.77	565.4
50	22.000	.50000-01	105.00	.2660-01	.2220-01	.2660-01	.1159-02	.9649-03	.1159-02	.7690	4.776	536.3
49	24.000	.20000	93.000	.1939	.1603	.1939	.6978-02	.6378-02	.8443-02	5.402	33.96	568.7
50	24.500	.10000+00	106.00	.1218	.1007	.1218	.5304-02	.4385-02	.5304-02	3.398	29.92	567.8
50	25.500	.15000	107.00	.1218	.1007	.1218	.5304-02	.4385-02	.5304-02	3.398	29.92	567.8



(RV1802)

AEDC VKF V418-57A (OH-498) COLLATION DECK

OH-498 (AEDC V418-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H:9TO BTU/ R FT2SEC	H:1TO BTU/ R FT2SEC	H:TAH BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DT4OT DEG. R /SEC	TH DEG. R
49	30.000	.92500	970.00	.7270-01	.6010-01	.7270-01	.3161-02	.2614-02	.3161-02	2.014	14.82	562.6
49	30.000	.95000	974.00	.8680-01	.7170-01	.8680-01	.3776-02	.3119-02	.3776-02	2.391	17.56	566.4
49	30.000	.97500	979.00	.5930-01	.4930-01	.5930-01	.2577-02	.2143-02	.2577-02	1.696	12.61	541.5
50	31.500	.20000	108.00	.7830-01	.6480-01	.7830-01	.3410-02	.2822-02	.3410-02	2.198	22.04	564.0
49	32.000	.40000	831.00	.8840-01	.7310-01	.8840-01	.3844-02	.3177-02	.3811-02	2.444	16.84	563.9
49	32.000	.50000	832.00	.7290-01	.6010-01	.7230-01	.3171-02	.2615-02	.3143-02	1.990	14.10	572.1
49	32.000	.60000	833.00	.6220-01	.5130-01	.6170-01	.2706-02	.2230-02	.2682-02	1.691	11.24	574.6
49	32.000	.70000	834.00	.4580-01	.3770-01	.4540-01	.1991-02	.1640-02	.1974-02	1.242	9.386	576.1
49	32.000	.80000	835.00	.5360-01	.4420-01	.5310-01	.2329-02	.1921-02	.2309-02	1.462	10.36	572.1
49	32.000	.90000	836.00	.5450-01	.4510-01	.5470-01	.2371-02	.1960-02	.2360-02	1.506	11.07	564.3
49	32.000	.95000	837.00	.6260-01	.5180-01	.6320-01	.2724-02	.2291-02	.2748-02	1.743	13.28	559.9
49	32.000	.97500	838.00	.6360-01	.5270-01	.6430-01	.2766-02	.2291-02	.2797-02	1.780	14.07	556.2
49	32.000	1.0150	839.00	.4000-01	.3320-01	.3910-01	.1740-02	.1446-02	.1700-02	1.139	9.225	545.0
49	32.000	1.0360	840.00	.4120-01	.3430-01	.4030-01	.1794-02	.1491-02	.1753-02	1.179	9.228	542.1
49	32.006	1.0450	841.00	.4250-01	.3530-01	.4150-01	.1848-02	.1537-02	.1806-02	1.215	9.343	542.2
49	32.000	1.0600	842.00	.3820-01	.3170-01	.3730-01	.1659-02	.1380-02	.1621-02	1.094	9.041	540.4
50	35.000	.50000-01	115.00	.1445	.1197	.1445	.6291-02	.5212-02	.6291-02	4.080	25.76	560.0
50	35.000	.20000	110.00	.9000-01	.7440-01	.9000-01	.3920-02	.3240-02	.3920-02	2.509	25.09	568.6
50	39.000	.10000-00	116.00	.1109	.9200-01	.1109	.4829-02	.4006-02	.4829-02	3.155	19.97	555.3
50	40.000	.76000-01	121.00	.7990-01	.6630-01	.7990-01	.3479-02	.2888-02	.3479-02	2.283	14.47	552.5
50	40.000	.15000	111.00	.1598	.1319	.1598	.6956-02	.5742-02	.6956-02	4.419	32.34	573.3
50	40.000	.20000	112.00	.8920-01	.7370-01	.8920-01	.3886-02	.3209-02	.3886-02	2.476	27.21	571.2
50	42.500	.50000-01	127.00	.1074	.8910-01	.1074	.4678-02	.3880-02	.4678-02	3.055	20.51	555.4
50	45.000	.15000	117.00	.8800-01	.7310-01	.8800-01	.3834-02	.3181-02	.3834-02	2.510	14.64	553.8
49	45.000	.92500	969.00	.1520-01	.1260-01	.1520-01	.6608-03	.5496-03	.6608-03	.4350	3.238	540.9
49	45.000	.95000	973.00	.2700-02	.2300-02	.2700-02	.1177-03	.9795-04	.1177-03	.7800-01	.5780	539.5
49	45.000	.97500	978.00	.4200-02	.3500-02	.4200-02	.1823-03	.1517-03	.1823-03	.1200	.8970	539.0
50	51.000	.20000	118.00	.4480-01	.3720-01	.4480-01	.1951-02	.1621-02	.1951-02	1.288	8.184	548.2
50	60.000	.50000-01	131.00	.4690-01	.3900-01	.4690-01	.2040-02	.1696-02	.2040-02	1.352	9.116	546.0
50	67.500	.20000	128.00	.3090-01	.2570-01	.3090-01	.1344-02	.1117-02	.1344-02	.8880	6.586	547.7
49	75.000	.97500	977.00	.3700-02	.3100-02	.3700-02	.1612-03	.1341-03	.1612-03	.1060	.7920	539.4
49	85.000	.97500	976.00	.6300-02	.5300-02	.6300-02	.2744-03	.2283-03	.2744-03	.1810	1.349	539.3
50	105.00	.40100	135.00	.1640-01	.1370-01	.1640-01	.7149-03	.5945-03	.7149-03	.4740	3.651	545.9
50	105.00	.50100	136.00	.2660-01	.2210-01	.2660-01	.1160-02	.9639-03	.1160-02	.7650	6.068	549.0
50	105.00	.60100	137.00	.6020-01	.5040-01	.6080-01	.2646-02	.2030-03	.2646-02	1.726	13.63	556.3
50	105.00	.70100	138.00	.1940-01	.1610-01	.1940-01	.8455-03	.7030-03	.8455-03	.5600	4.448	546.3
50	105.00	.80000	139.00	.5700-02	.4700-02	.5700-02	.2465-03	.2052-03	.2465-03	.1650	1.311	541.3
50	113.00	.60100	146.00	.3160-01	.2630-01	.3160-01	.1378-02	.1145-02	.1378-02	.9100	7.221	548.2
50	116.00	.60100	147.00	.4280-01	.3560-01	.4280-01	.1865-02	.1550-02	.1865-02	1.229	9.741	549.9
50	120.00	.75100	148.00	.3380-01	.2800-01	.3380-01	.1471-02	.1221-02	.1471-02	.9660	7.645	552.1
50	120.00	.10000-00	132.00	.1420-01	.1190-01	.1420-01	.6199-03	.5068-02	.6199-03	.4130	2.492	541.6
50	20.00	.80500	247.00	.1407	.1164	.1407	.6129-02	.5068-02	.6129-02	3.932	31.84	567.0
50	120.00	.82500	248.00	.1095	.9070-01	.1095	.4768-02	.3951-02	.4768-02	3.098	25.21	558.8

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1802)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AN) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTAOT DEG. R /SEC	TH DEG. R
50	120.00	.86200	249.00	.6080-01	.5060-01	.6080-01	.2649-02	.2201-02	.2649-02	1.750	12.70	547.9
50	130.00	.80500	253.00	.8690-01	.7210-01	.8690-01	.3786-02	.3141-02	.3786-02	2.474	19.55	555.1
50	130.00	.82900	254.00	.5640-01	.4690-01	.5640-01	.2457-02	.2041-02	.2457-02	1.619	12.44	549.8
50	130.00	.86200	255.00	.2670-01	.2220-01	.2670-01	.1163-02	.0960-03	.1163-02	.7740	6.359	543.3
50	130.00	.96300	256.00	.1190-01	.9900-02	.1190-01	.5167-03	.4303-03	.5167-03	.3460	3.151	539.6
50	135.00	.40100	142.00	.1200-02	.1000-02	.1200-02	.5234-04	.4358-04	.5234-04	.3500-01	.2710	540.1
50	135.00	.50100	143.00	.3000-02	.2500-02	.3000-02	.1310-03	.1090-03	.1310-03	.8700-01	.7190	541.2
50	135.00	.60100	144.00	.6800-02	.5700-02	.6800-02	.2965-03	.2468-03	.2965-03	1.980	1.526	542.1
50	140.00	.70100	145.00	.7000-02	.5800-02	.7000-02	.3041-03	.2532-03	.3041-03	.2030	1.617	541.4
50	140.00	.18000	85.000	.1270-01	.1050-01	.1270-01	.5517-03	.4594-03	.5517-03	.3680	2.835	540.7
50	140.00	.19500	87.000	.1390-01	.1150-01	.1390-01	.6036-03	.5023-03	.6036-03	.4020	3.088	543.0
50	145.00	.80500	259.00	.4370-01	.3640-01	.4370-01	.1904-02	.1583-02	.1904-02	1.259	9.696	547.2
51	145.00	.82900	260.00	.2550-01	.2120-01	.2550-01	.1110-02	.9243-03	.1110-02	.7400	5.563	537.7
51	145.00	.86200	261.00	.5400-02	.4500-02	.5400-02	.2344-03	.1953-03	.2344-03	.1570	1.294	535.7
50	150.00	.16000	86.000	.1250-01	.1040-01	.1250-01	.5438-03	.4525-03	.5438-03	.3620	2.689	543.0
50	150.00	.18000	84.000	.2480-01	.2060-01	.2480-01	.1080-02	.8980-03	.1080-02	.7160	5.313	545.6
50	150.00	.19000	82.000	.6000-03	.5000-03	.6000-03	.2569-04	.2141-04	.2569-04	.7000-01	.1280	538.3
50	155.00	.16000	80.000	.1320-01	.1090-01	.1320-01	.5727-03	.4766-03	.5727-03	.3810	2.832	543.1
50	160.00	.18000	77.000	.4080-01	.3390-01	.4080-01	.1776-02	.1474-02	.1776-02	1.167	9.250	551.5
50	175.00	.16500	79.000	.2050-01	.1700-01	.2050-01	.8919-03	.7419-03	.8919-03	.5920	4.255	544.6
50	175.00	.17500	78.000	.2940-01	.2440-01	.2940-01	.1281-02	.1065-02	.1281-02	.8460	6.274	547.8
49	180.00	.10000-01	59.000	.5870-01	.4880-01	.5870-01	.2558-02	.2123-02	.2558-02	1.677	12.00	553.0
49	180.00	.25000-01	60.000	.2247	.1856	.2247	.9769-02	.8070-02	.9769-02	6.187	45.43	566.4
49	180.00	.50000-C1	61.000	.6710-01	.5580-01	.6710-01	.2920-02	.2426-02	.2920-02	1.914	17.75	544.3
49	180.00	.75000-C1	62.000	.2930-01	.2440-01	.2930-01	.1059-02	.1059-02	.1272-02	.8420	5.379	537.7
49	180.00	.10000-00	63.000	.1470-01	.1230-01	.1470-01	.6412-03	.5340-03	.6412-03	.4260	2.723	535.3
49	180.00	.12500	64.000	.9300-02	.7700-02	.9300-02	.4025-03	.3352-03	.4025-03	.2680	1.761	534.9
49	180.00	.15000	65.000	.7600-02	.6400-02	.7600-02	.3322-03	.2768-03	.3322-03	.2210	1.546	534.6
49	180.00	.16000	66.000	.9100-02	.7500-02	.9100-02	.3937-03	.3280-03	.3937-03	.2620	1.832	534.6
49	180.00	.17000	67.000	.3580-01	.2980-01	.3580-01	.1558-02	.1296-02	.1558-02	1.028	5.739	539.5
49	180.00	.20000	69.000	.6270-01	.5210-01	.6270-01	.2726-02	.2266-02	.2726-02	1.792	9.990	542.3
49	180.00	.40100	72.000	.1190-01	.9900-02	.1190-01	.5193-03	.4326-03	.5193-03	.3450	2.148	534.6
49	180.00	.50000	73.000	.1500-01	.1250-01	.1500-01	.6535-03	.5441-03	.6535-03	.4330	3.692	536.8
49	180.00	.60100	74.000	.1300-01	.1080-01	.1300-01	.5635-03	.4691-03	.5635-03	.3730	3.182	537.0
49	180.00	.70100	75.000	.7400-02	.6200-02	.7400-02	.3220-03	.2682-03	.3220-03	.2140	1.764	535.9
49	180.00			.3800-02	.3200-02	.3800-02	.1672-03	.1393-03	.1672-03	.1110	.8890	534.9

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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## FUSELAGE

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1802)

## PARAMETRIC DATA

ALPHA = 25.00    BETA = .0000    ELEVTR = .0000    SPOBRK = .0000  
BOFLAP = .0000    MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
31	8.000	3.352	25.05	.0000	180.0	759.2	.7800-01	1332.	96.50	3.484	3851.	.6762-04
32	8.000	3.329	25.07	.0000	180.0	761.1	.7800-01	1340.	97.10	3.492	3862.	.6737-04
33	8.000	3.291	25.04	.0000	180.0	759.8	.7800-01	1349.	97.70	3.486	3875.	.6681-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
31	.7768-07	.4603-01	0.0175
32	.7816-07	.4614-01	.2222-01
33	.7868-07	.4615-01	.2238-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(GTO) BTU/ R FT2SEC	H(TOI) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
31	.00000	.50000-02	2.0000	.7546	.6064	.6148	.3474-01	.2791-01	.2830-01	18.92	124.8	653.6
31	.00000	.10000-01	3.0000	.5920	.4799	.5045	.2725-01	.2209-01	.2322-01	15.54	100.6	628.1
31	.00000	.20000-01	4.0000	.3641	.2990	.3277	.1676-01	.1376-01	.1508-01	10.25	55.86	587.0
31	.00000	.30000-01	5.0000	.2616	.2155	.2410	.1204-01	.0920-02	.1109-01	7.493	41.07	576.2
31	.00000	.40000-01	6.0000	.2118	.1748	.1981	.0751-02	.8048-02	.9117-02	6.137	33.75	569.0
31	.00000	.50000-01	7.0000	.1948	.1603	.1839	.8567-02	.7379-02	.8464-02	5.547	36.79	579.8
31	.00000	.60000-01	8.0000	.1969	.1623	.1874	.9085-02	.7470-02	.8624-02	5.654	35.44	574.7
31	.00000	.70000-01	9.0000	.1662	.1369	.1593	.7651-02	.6302-02	.7333-02	4.757	32.59	576.6
31	.00000	.80000-01	10.000	.1324	.1092	.1277	.6033-02	.5027-02	.5876-02	3.827	26.30	570.3
31	.00000	.90000-01	11.000	.1219	.1007	.1180	.5610-02	.4635-02	.5433-02	3.551	22.37	565.3
31	.00000	.10000*00	12.000	.1115	.9210-01	.1084	.5131-02	.4240-02	.4989-02	3.253	19.38	564.5
31	.00000	.12000	14.000	.1014	.8390-01	.9320-01	.4670-02	.3862-02	.4564-02	2.972	16.41	561.8
31	.00000	.13000	15.000	.9300-01	.7690-01	.9110-01	.4281-02	.3539-02	.4192-02	2.718	15.78	563.5
31	.00000	.14000	16.000	.8340-01	.6900-01	.8180-01	.3839-02	.3174-02	.3763-02	2.442	15.40	562.2
31	.00000	.16000	18.000	.6610-01	.7120-01	.8460-01	.3565-02	.3278-02	.3896-02	2.517	15.43	563.5
31	.00000	.17000	19.000	.8440-01	.6980-01	.8300-01	.3885-02	.3211-02	.3822-02	2.464	15.52	564.3
31	.00000	.18000	20.000	.8400-01	.6940-01	.8270-01	.3866-02	.3196-02	.3806-02	2.451	15.44	564.3

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
31	.00000	.19000	21.000	.8610-01	.7120-01	.8493-01	.3965-02	.3279-02	.3910-02	2.523	15.92	562.0
31	.00000	.20000	22.000	.8040-01	.6640-01	.7930-01	.3700-02	.3059-02	.3652-02	2.350	14.81	563.3
31	.00000	.22500	23.000	.7420-01	.6140-01	.7340-01	.3415-02	.2824-02	.3380-02	2.176	13.73	561.2
31	.00000	.25000	24.000	.6840-01	.5590-01	.6780-01	.3132-02	.2516-02	.3030-02	1.988	12.61	561.3
31	.00000	.27500	25.000	.6260-01	.5070-01	.6200-01	.2848-02	.2211-02	.2927-02	1.888	11.91	564.8
31	.00000	.30000	26.000	.5680-01	.4550-01	.5630-01	.2560-02	.2018-02	.2744-02	1.744	11.05	565.8
31	.00000	.32500	27.000	.5100-01	.4030-01	.5060-01	.2285-02	.1744-02	.2537-02	1.608	10.60	570.0
31	.00000	.35000	28.000	.4520-01	.3510-01	.4480-01	.2018-02	.1512-02	.2316-02	1.452	10.19	573.4
31	.00000	.37500	29.000	.3940-01	.2990-01	.3930-01	.1744-02	.1261-02	.2042-02	1.300	9.61	574.2
31	.00000	.40000	30.000	.3360-01	.2410-01	.3350-01	.1479-02	.1018-02	.1744-02	1.149	9.06	576.6
31	.00000	.42500	31.000	.2780-01	.1830-01	.2770-01	.1203-02	.0761-02	.1479-02	1.001	8.46	578.5
31	.00000	.45000	32.000	.2200-01	.1250-01	.2190-01	.0988-02	.0518-02	.1203-02	0.852	7.83	579.9
31	.00000	.47500	33.000	.1620-01	.0670-01	.1610-01	.0713-02	.0248-02	.0988-02	0.706	7.21	579.0
31	.00000	.50000	34.000	.1040-01	.0090-01	.1030-01	.0438-02	.0073-02	.0713-02	0.559	6.59	571.1
31	.00000	.52500	35.000	.0460-01	.0010-01	.0450-01	.0163-02	.0008-02	.0438-02	0.412	5.97	572.3
31	.00000	.55000	36.000	.0080-01	.0000-01	.0080-01	.0000-02	.0000-02	.0163-02	0.266	5.35	574.4
31	.00000	.57500	37.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.119	4.73	561.1
31	.00000	.60000	38.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.071	4.11	559.0
31	.00000	.62500	39.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.023	3.49	561.3
31	.00000	.65000	40.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	2.87	561.5
31	.00000	.67500	41.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	2.25	544.6
31	.00000	.70000	42.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	1.63	542.1
31	.00000	.72500	43.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	1.01	541.5
31	.00000	.75000	44.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	0.39	573.9
31	.00000	.77500	45.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	0.00	578.0
31	.00000	.80000	46.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	0.00	578.2
31	.00000	.82500	47.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	0.00	579.7
31	.00000	.85000	48.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	0.00	578.0
31	.00000	.87500	49.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	0.00	573.0
31	.00000	.90000	50.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	0.00	569.0
31	.00000	.92500	51.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	0.00	567.2
31	.00000	.95000	52.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	0.00	560.4
31	.00000	.97500	53.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	0.00	575.5
31	.00000	.10000	54.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	0.00	575.7
31	.00000	.102500	55.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	0.00	569.7
31	.00000	.105000	56.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	0.00	568.3
31	.00000	.107500	57.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	0.00	542.9
31	.00000	.110000	58.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	0.00	572.1
31	.00000	.112500	59.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	0.00	571.4
31	.00000	.115000	60.000	.0000-01	.0000-01	.0000-01	.0000-02	.0000-02	.0000-02	0.000	0.00	

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10T) BTU/ R FT2SEC	H(11AM) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TM DEG. R
31	30.000	.92500	970.00	.7900-01	.6470-01	.7800-01	.3588-02	.2961-02	.3588-02	2.258	16.56	569.2
31	30.000	.95000	974.00	.9780-01	.8060-01	.9780-01	.4500-02	.3709-02	.4500-02	2.811	20.57	573.7
31	30.000	.97500	979.00	.5570-01	.4610-01	.5570-01	.2563-02	.2124-02	.2563-02	1.649	12.18	554.8
32	31.500	.20000	108.00	.8110-01	.6710-01	.8110-01	.3743-02	.3094-02	.3743-02	2.394	23.97	566.3
31	32.000	.40000	831.00	.9110-01	.7520-01	.9030-01	.4194-02	.3460-02	.4194-02	2.632	18.08	570.8
31	32.000	.50000	832.00	.7280-01	.5990-01	.7220-01	.3351-02	.2759-02	.3322-02	2.077	14.67	578.6
31	32.000	.60000	833.00	.6610-01	.5440-01	.6550-01	.3043-02	.2503-02	.3016-02	1.880	12.46	580.5
31	32.000	.80000	834.00	.5860-01	.4820-01	.5810-01	.2699-02	.2220-02	.2675-02	1.665	12.56	581.3
31	32.000	.90000	835.00	.6730-01	.5540-01	.6670-01	.3096-02	.2550-02	.3069-02	1.924	13.61	576.9
31	32.000	.95000	836.00	.7160-01	.5900-01	.7190-01	.3295-02	.2718-02	.3308-02	2.257	15.13	571.5
31	32.000	.97500	837.00	.7770-01	.6420-01	.7840-01	.3577-02	.2953-02	.3609-02	2.065	17.13	557.5
31	32.000	.97500	838.00	.8000-01	.6600-01	.8090-01	.3682-02	.3040-02	.3725-02	2.322	18.25	567.9
31	32.000	1.0150	839.00	.5300-01	.4390-01	.5180-01	.2400-02	.2018-02	.2383-02	1.556	12.50	560.8
31	32.000	1.0300	840.00	.5210-01	.4320-01	.5090-01	.2400-02	.1987-02	.2344-02	1.537	11.93	557.9
31	32.000	1.0450	841.00	.5820-01	.4820-01	.5690-01	.2681-02	.2219-02	.2618-02	1.716	13.09	558.3
31	32.000	1.0600	842.00	.4880-01	.4040-01	.4770-01	.2247-02	.1861-02	.2195-02	1.442	11.82	556.7
32	35.000	.20000	110.00	.9100-01	.7510-01	.9100-01	.4198-02	.3465-02	.4198-02	2.660	27.20	562.8
32	35.000	.20000	111.00	.1111	.9200-01	.1111	.5124-02	.4246-02	.5124-02	3.322	26.57	572.0
32	39.000	.76000-01	121.00	.8070-01	.6700-01	.8070-01	.3725-02	.3089-02	.3725-02	2.426	21.00	557.5
32	40.000	.15000	111.00	.1589	.1310	.1589	.7329-02	.6043-02	.7329-02	4.613	33.70	576.4
32	40.000	.20000	112.00	.8760-01	.7220-01	.8760-01	.4040-02	.3333-02	.4040-02	2.552	28.01	574.0
32	42.500	.50000-01	127.00	.1065	.8830-01	.1065	.4915-02	.4072-02	.4915-02	3.183	21.34	558.2
32	45.000	.15000	117.00	.9030-01	.7490-01	.9030-01	.4168-02	.3457-02	.4168-02	2.716	15.84	554.1
31	45.000	.92500	969.00	.1800-01	.1500-01	.1800-01	.8289-03	.6883-03	.8289-03	.5400	4.009	546.3
31	45.000	.95000	973.00	.3700-02	.3100-02	.3700-02	.1724-03	.1433-03	.1724-03	.1130	.8400	543.0
31	45.000	.97500	978.00	.5300-02	.4400-02	.5300-02	.2462-03	.2046-03	.2462-03	.1610	1.200	542.6
32	51.000	.20000	118.00	.4610-01	.3830-01	.4610-01	.2125-02	.1765-02	.2125-02	1.395	8.858	549.3
32	60.000	.50000-01	131.00	.4530-01	.3760-01	.4530-01	.2090-02	.1736-02	.2090-02	1.375	9.268	547.7
32	67.500	.20000	128.00	.3100-01	.2570-01	.3100-01	.1430-02	.1188-02	.1430-02	.9400	6.966	548.4
31	75.000	.97500	977.00	.4800-02	.4000-02	.4800-02	.2189-03	.1819-03	.2189-03	.1430	1.066	542.9
31	85.000	.97500	976.00	.6900-02	.5800-02	.6900-02	.3193-03	.2653-03	.3193-03	.2090	1.555	543.0
32	105.00	.40100	135.00	.1710-01	.1430-01	.1710-01	.7910-03	.6576-03	.7910-03	.5230	4.030	545.0
32	105.00	.50100	136.00	.2620-01	.2180-01	.2620-01	.1211-02	.1005-02	.1211-02	.7940	6.293	550.1
32	105.00	.60100	137.00	.6140-01	.5090-01	.6140-01	.2833-02	.2347-02	.2833-02	1.832	14.44	559.3
32	105.00	.70100	138.00	.2100-01	.1740-01	.2100-01	.9692-03	.8050-03	.9692-03	.6370	5.048	549.1
32	105.00	.80000	139.00	.6400-02	.5300-02	.6400-02	.2949-03	.2453-03	.2949-03	.1950	1.554	543.6
32	113.00	.60100	146.00	.3100-01	.2580-01	.3100-01	.1431-02	.1188-02	.1431-02	.9380	7.432	550.5
32	116.00	.60100	147.00	.4090-01	.3400-01	.4090-01	.1889-02	.1568-02	.1889-02	1.235	9.774	552.1
32	116.00	.70100	148.00	.4090-01	.3400-01	.4090-01	.1550-02	.1285-02	.1550-02	1.008	7.960	555.7
32	120.00	.10000+00	132.00	.3360-01	.2780-01	.3360-01	.6479-03	.5390-03	.6479-03	.4300	2.590	542.5
32	120.00	.80500	247.00	.1381	.1141	.1381	.6370-02	.5266-02	.6370-02	4.070	32.97	566.9
32	120.00	.82900	248.00	.1048	.8680-01	.1048	.4833-02	.4005-02	.4833-02	3.131	25.49	558.1

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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(RV1802)

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(910) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DT/DT DEG. R /SEC	TW DEG. R
32	120.00	.86200	249.00	.6050-01	.5030-01	.6050-01	.2793-02	.2320-02	.2793-02	1.836	13.32	548.6
32	130.00	.80500	253.00	.8390-01	.6860-01	.8390-01	.3871-02	.3209-02	.3871-02	2.515	19.86	556.2
32	130.00	.82900	254.00	.5610-01	.4660-01	.5610-01	.2591-02	.2151-02	.2591-02	1.697	13.03	550.9
32	130.00	.86200	255.00	.2600-01	.2160-01	.2600-01	.1201-02	.9985-03	.1201-02	.7940	6.522	544.3
32	130.00	.96300	256.00	.1750-01	.1450-01	.1750-01	.8051-03	.6706-03	.8051-03	.5380	4.909	537.7
32	135.00	.40100	142.00	.1200-02	.1000-02	.1200-02	.5607-04	.4669-04	.5607-04	.3700-01	.2890	539.0
32	135.00	.50100	143.00	.3000-02	.2500-02	.3000-02	.1370-03	.1140-03	.1370-03	.9100-01	.7480	541.7
32	135.00	.60100	144.00	.7800-02	.6500-02	.7800-02	.3584-03	.2981-03	.3584-03	.2370	1.831	543.6
32	135.00	.70100	145.00	.8500-02	.7000-02	.8500-02	.3901-03	.3245-03	.3901-03	.2580	2.057	543.2
32	140.00	.18000	85.000	.8500-02	.7100-02	.8500-02	.3922-03	.3262-03	.3922-03	.2600	1.993	544.2
32	140.00	.19500	87.000	.1510-01	.1260-01	.1510-01	.6988-03	.5813-03	.6988-03	.4630	3.560	543.0
32	145.00	.80500	259.00	.4440-01	.3690-01	.4440-01	.2047-02	.1700-02	.2047-02	1.345	10.34	548.9
33	145.00	.82900	260.00	.1680-01	.1400-01	.1680-01	.7736-03	.6450-03	.7736-03	.5230	3.933	537.4
33	145.00	.86200	261.00	.5600-02	.4600-02	.5600-02	.2563-03	.2138-03	.2563-03	.1740	1.435	535.5
32	150.00	.16000	86.000	.1200-01	.1000-01	.1200-01	.5535-03	.4604-03	.5535-03	.3670	2.724	543.3
32	150.00	.18000	84.000	.2410-01	.2000-01	.2410-01	.1111-02	.9236-03	.1111-02	.7330	5.441	545.8
32	150.00	.19000	82.000	.4000-03	.3000-03	.4000-03	.1645-04	.1370-04	.1645-04	.1100-01	.8200-01	539.3
32	155.00	.16000	80.000	.1250-01	.1040-01	.1250-01	.5758-03	.4790-03	.5758-03	.3820	2.835	543.2
32	160.00	.18000	77.000	.4750-01	.3950-01	.4750-01	.2194-02	.1821-02	.2194-02	1.435	11.37	551.7
32	175.00	.15000	81.000	.2220-01	.1840-01	.2220-01	.1024-02	.8511-03	.1024-02	.6760	4.858	545.1
32	175.00	.16500	79.000	.2880-01	.2480-01	.2880-01	.1377-02	.1144-02	.1377-02	.9050	6.709	548.2
32	175.00	.17500	78.000	.6280-01	.5210-01	.6280-01	.2899-02	.2405-02	.2899-02	1.890	13.52	553.7
31	180.00	.10000-01	59.000	.2247	.1849	.2247	.1034-01	.8509-02	.1034-01	6.395	46.64	580.0
31	180.00	.25000-01	60.000	.6600-01	.5470-01	.6600-01	.3040-02	.2518-02	.3040-02	1.951	13.93	556.6
31	180.00	.50000-0	61.000	.2930-01	.2430-01	.2930-01	.1349-02	.1120-02	.1349-02	.8760	5.559	549.4
31	180.00	.75000-C	62.000	.1440-01	.1200-01	.1440-01	.6644-03	.5518-03	.6644-03	.4330	2.756	546.1
31	180.00	.10000+0	63.000	.9300-02	.7700-02	.9300-02	.4263-03	.3541-03	.4263-03	.2790	1.825	544.9
31	180.00	.12500	64.000	.8200-02	.6900-02	.8200-02	.3795-03	.3153-03	.3795-03	.2480	1.729	543.9
31	180.00	.15000	65.000	.9800-02	.8100-02	.9800-02	.4507-03	.3747-03	.4507-03	.2960	2.060	542.5
31	180.00	.16000	66.000	.3860-01	.3210-01	.3860-01	.1779-02	.1477-02	.1779-02	1.157	6.433	547.8
31	180.00	.17000	67.000	.6460-01	.5360-01	.6460-01	.2976-02	.2469-02	.2976-02	1.930	10.72	549.7
31	180.00	.20000	69.000	.1250-01	.1040-01	.1250-01	.5745-03	.4778-03	.5745-03	.3780	2.345	540.0
31	180.00	.40100	72.000	.1540-01	.1280-01	.1540-01	.7068-03	.5876-03	.7068-03	.4640	3.843	541.8
31	180.00	.50000	73.000	.1290-01	.1080-01	.1290-01	.5959-03	.4953-03	.5959-03	.3910	3.320	542.5
31	180.00	.60100	74.000	.7100-02	.5900-02	.7100-02	.3256-03	.2707-03	.3256-03	.2140	1.756	542.3
31	180.00	.70100	75.000	.3900-02	.3200-02	.3900-02	.1770-03	.1471-03	.1770-03	.1160	.9260	541.4

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 25.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
4	8.000	3.773	25.05	.0000	180.0	862.8	.8800-01	1340.	97.10	3.959	3863.	.7636-04
5	8.000	3.783	25.05	.0000	180.0	861.5	.8800-01	1336.	96.80	3.953	3858.	.7645-04
6	8.000	3.773	25.04	.0000	180.0	863.7	.8800-01	1341.	97.20	3.964	3864.	.7639-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
4	.7818-07	.4913-01	0.0175
5	.7797-07	.4907-01	.2092-01
6	.7823-07	.4916-01	.2092-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	HISTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QOCT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
4	.00000	.00000	1.0000	.8351	.6744	.6899	.4103-01	.3313-01	.3438-01	23.08	122.4	643.6
4	.00000	.50000-02	2.0000	.7498	.6039	.6121	.3684-01	.2967-01	.3007-01	20.42	134.9	651.6
4	.00000	.10000-01	3.0000	.5816	.4728	.4967	.2857-01	.2323-01	.2440-01	16.64	108.0	623.7
4	.00000	.20000-01	4.0000	.3605	.2971	.3251	.1771-01	.1458-01	.1597-01	11.11	60.81	578.8
4	.00000	.30000-01	5.0000	.2627	.2170	.2423	.1290-01	.1066-01	.1190-01	8.212	45.15	569.7
4	.00000	.40000-01	6.0000	.2086	.1727	.1953	.1025-01	.8483-02	.9592-02	6.596	36.40	562.5
4	.00000	.50000-01	7.0000	.1956	.1613	.1847	.9608-02	.7926-02	.9076-02	6.068	40.34	574.5
4	.00000	.60000-01	8.0000	.1932	.1596	.1840	.9493-02	.7842-02	.9037-02	6.044	37.98	569.4
4	.00000	.70000-01	9.0000	.1649	.1362	.1582	.8133-02	.6690-02	.7770-02	5.139	35.28	571.9
4	.00000	.80000-01	10.000	.1305	.1080	.1259	.6413-02	.5303-02	.6187-02	4.108	28.29	565.5
4	.00000	.90000-01	11.000	.1207	.9990-01	.1169	.5923-02	.4910-02	.5744-02	3.827	24.16	560.5
4	.00000	.10000+00	12.000	.1110	.9200-01	.1080	.5455-02	.4518-02	.5305-02	3.524	21.05	560.0
4	.00000	.12000	14.000	.7650-01	.6340-01	.7480-01	.3758-02	.3117-02	.3675-02	2.447	13.55	554.9
4	.00000	.13000	15.000	.9380-01	.7770-01	.9190-01	.4608-02	.3818-02	.4513-02	2.986	17.39	558.0
4	.00000	.14000	16.000	.8320-01	.6900-01	.8160-01	.4088-02	.3388-02	.4009-02	2.653	16.78	557.1
4	.00000	.15000	18.000	.8550-01	.7080-01	.8400-01	.4199-02	.3479-02	.4127-02	2.717	16.69	559.1
4	.00000	.16000	18.000	.8520-01	.7060-01	.8380-01	.4185-02	.3466-02	.4118-02	2.704	17.07	560.1

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

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(RV1802)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(97J) BTU/R FT/SEC	H(10) BTU/R FT/SEC	H(10A) BTU/R FT/SEC	QDOT BTU/ FT/SEC	DTWOT DEG. R /SEC	TW DEG. R
4	.00000	.18000	20.000	.8300-01	.6880-01	.8180-01	.4079-02	.3378-02	.4017-02	2.634	16.63	560.5
4	.00000	.19000	21.000	.8380-01	.6530-01	.8260-01	.4117-02	.3412-02	.4060-02	2.669	16.87	557.9
4	.00000	.20000	22.000	.8050-01	.6670-01	.7950-01	.3956-02	.3277-02	.3906-02	2.556	16.14	560.0
4	.00000	.22500	23.000	.7420-01	.6140-01	.7340-01	.3644-02	.3018-02	.3607-02	2.353	14.86	560.3
4	.00000	.25000	801.00	.7110-01	.5890-01	.7050-01	.3494-02	.2893-02	.3464-02	2.255	14.24	560.5
4	.00000	.30000	802.00	.6480-01	.5360-01	.6420-01	.3181-02	.2634-02	.3154-02	2.052	12.96	560.8
4	.00000	.35000	803.00	.6580-01	.5440-01	.6520-01	.3232-02	.2674-02	.3204-02	2.074	13.07	564.2
4	.00000	.40000	804.00	.6520-01	.5390-01	.6460-01	.3203-02	.2649-02	.3175-02	2.056	13.33	564.2
4	.00000	.45000	805.00	.5960-01	.4930-01	.5910-01	.2927-02	.2421-02	.2902-02	1.874	12.51	565.9
4	.00000	.50000	806.00	.5640-01	.4660-01	.5590-01	.2769-02	.2289-02	.2745-02	1.769	12.17	567.2
4	.00000	.55000	807.00	.5540-01	.4570-01	.5490-01	.2721-02	.2247-02	.2697-02	1.728	12.66	570.8
4	.00000	.60000	808.00	.5510-01	.4550-01	.5460-01	.2705-02	.2235-02	.2683-02	1.718	12.58	571.4
4	.00000	.65000	809.00	.5690-01	.4690-01	.5640-01	.2795-02	.2306-02	.2771-02	1.764	12.90	574.8
4	.00000	.70000	810.00	.6890-01	.5680-01	.6830-01	.3383-02	.2789-02	.3354-02	2.126	16.06	577.6
4	.00000	.75000	811.00	.8920-01	.7350-01	.8840-01	.4382-02	.3611-02	.4343-02	2.752	20.09	578.1
4	.00000	.80000	812.00	.1158	.9370-01	.1147	.5687-02	.4684-02	.5637-02	3.560	25.96	580.1
4	.00000	.85000	813.00	.1279	.1053	.1281	.6282-02	.5172-02	.6294-02	3.922	29.57	581.7
4	.00000	.90000	814.00	.1288	.1062	.1294	.6329-02	.5217-02	.6355-02	3.981	28.14	577.0
4	.00000	.92500	815.00	.1098	.9060-01	.1105	.5392-02	.4450-02	.5427-02	3.413	27.75	573.1
4	.00000	.95000	816.00	.1117	.9220-01	.1128	.5489-02	.4527-02	.5539-02	3.461	28.11	575.5
4	.00000	.97500	817.00	.1204	.9920-01	.1218	.5917-02	.4875-02	.5986-02	3.711	30.09	578.9
4	.00000	1.0150	818.00	.8140-01	.6740-01	.8260-01	.4001-02	.3313-02	.4058-02	2.581	19.00	561.0
4	.00000	1.0300	819.00	.7730-01	.6400-01	.7840-01	.3797-02	.3145-02	.3850-02	2.457	18.11	558.8
4	.00000	1.0450	820.00	.7570-01	.6270-01	.7680-01	.3719-02	.3079-02	.3772-02	2.396	17.49	561.8
4	.00000	1.0600	821.00	.6640-01	.5490-01	.6730-01	.3260-02	.2699-02	.3307-02	2.100	17.49	562.0
4	.00000	1.0800	89.000	.1090-01	.9100-02	.1090-01	.5344-03	.4449-03	.5344-03	3.560	2.145	540.5
4	.00000	1.1000	91.000	.2650-01	.2210-01	.2650-01	.1303-02	.1084-02	.1303-02	.8640	5.352	542.6
4	.00000	1.1200	90.000	.3660-02	.3000-02	.3600-02	.1784-03	.1485-03	.1784-03	.1190	7.180	539.1
4	.00000	1.1400	823.00	.6790-01	.5600-01	.6730-01	.3335-02	.2752-02	.3306-02	2.112	16.56	572.8
4	.00000	1.1600	824.00	.6380-01	.5260-01	.6320-01	.3134-02	.2584-02	.3106-02	1.974	15.46	576.0
4	.00000	1.1800	825.00	.4720-01	.3890-01	.4680-01	.2320-02	.1913-02	.2299-02	1.461	12.81	576.1
4	.00000	1.2000	826.00	.7360-01	.6060-01	.7300-01	.3616-02	.2979-02	.3584-02	2.267	16.54	579.2
4	.00000	1.2200	827.00	.1019	.8400-01	.1010	.5008-02	.4127-02	.4954-02	3.142	22.93	578.6
4	.00000	1.2400	828.00	.1044	.8610-01	.1048	.5127-02	.4228-02	.5148-02	3.231	25.30	575.8
4	.00000	1.2600	829.00	.9270-01	.7660-01	.9360-01	.4555-02	.3761-02	.4597-02	2.890	25.40	571.6
5	.00000	1.2800	103.00	.1777	.1469	.1777	.8720-02	.7208-02	.8720-02	5.554	32.20	565.9
5	.00000	1.3000	104.00	.1055	.8740-01	.1055	.5175-02	.4286-02	.5175-02	3.333	21.06	558.7
5	.00000	1.3200	971.00	.9280-01	.7650-01	.9280-01	.4557-02	.3757-02	.4557-02	2.868	20.96	576.6
4	.00000	1.3400	975.00	.1125	.9270-01	.1125	.5524-02	.4553-02	.5524-02	3.469	25.32	578.1
4	.00000	1.3600	980.00	.1009	.8330-01	.1009	.4957-02	.4091-02	.4957-02	3.141	23.00	572.3
5	.00000	1.3800	105.00	.2297	.1897	.2297	.1127-01	.9309-02	.1127-01	7.155	39.38	567.8
4	.00000	1.4000	93.000	.2800-01	.2330-01	.2800-01	.1374-02	.1143-02	.1374-02	.9110	5.640	543.0
5	.00000	1.4200	106.00	.1912	.1578	.1912	.9381-02	.7743-02	.9381-02	5.924	37.20	571.3



AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H19TO) BTU/ R FT/SEC	H1TO) BTU/ R FT/SEC	H1TAH) BTU/ R FT/SEC	QDOT BTU/ FT/SEC	DTWOT DEG. R /SEC	TW DEG. R
5	25.500	15000	107.00	.1195	.9860-01	.1195	.5862-02	.4839-02	.5862-02	3.707	32.60	570.4
4	30.000	92500	970.00	.8220-01	.6790-01	.8220-01	.4036-02	.3336-02	.4036-02	2.577	18.91	567.6
4	30.000	95000	974.00	.1050	.8660-01	.1050	.5158-02	.4255-02	.5158-02	3.255	23.80	575.1
4	30.000	97500	979.00	.5450-01	.4520-01	.5450-01	.2677-02	.2220-02	.2677-02	2.479	12.87	555.3
5	31.500	20000	108.00	.7930-01	.6560-01	.7930-01	.3332-02	.3217-02	.3892-02	2.796	19.22	568.4
4	32.000	40000	831.00	.8940-01	.7380-01	.8940-01	.4391-02	.3628-02	.4391-02	2.080	16.22	576.5
4	32.000	50000	832.00	.7420-01	.6110-01	.7420-01	.3643-02	.3004-02	.3643-02	2.032	15.33	580.7
4	32.000	60000	833.00	.6740-01	.5560-01	.6740-01	.3312-02	.2730-02	.3220-02	2.692	19.04	576.3
4	32.000	70000	834.00	.6610-01	.5450-01	.6610-01	.3249-02	.2676-02	.3249-02	2.948	21.59	572.2
4	32.000	80000	835.00	.8700-01	.7170-01	.8700-01	.4275-02	.3525-02	.4275-02	3.004	22.78	570.0
4	32.000	90000	836.00	.9470-01	.7810-01	.9470-01	.4651-02	.3839-02	.4651-02	3.168	24.87	571.3
4	32.000	95000	837.00	.9620-01	.7940-01	.9620-01	.4724-02	.3902-02	.4724-02	2.176	17.47	562.5
4	32.000	97500	838.00	.1016	.8390-01	.1028	.4992-02	.4121-02	.5049-02	2.265	17.56	560.5
4	32.000	1.0150	839.00	.6880-01	.5700-01	.6720-01	.3381-02	.2799-02	.3303-02	2.004	16.41	558.8
4	32.000	1.0300	840.00	.7140-01	.5910-01	.6980-01	.3509-02	.2906-02	.3427-02	4.559	28.76	561.6
4	32.000	1.0450	841.00	.7470-01	.6190-01	.7300-01	.3670-02	.3040-02	.3585-02	2.722	21.19	571.4
4	32.000	1.0600	842.00	.6300-01	.5220-01	.6160-01	.3097-02	.2565-02	.3025-02	2.446	16.41	550.9
5	35.000	50000-01	115.00	.1449	.1199	.1449	.7110-02	.5884-02	.7110-02	3.378	17.07	551.4
5	35.000	20000	110.00	.8790-01	.7250-01	.8790-01	.4311-02	.3558-02	.4311-02	1.070	7.950	540.9
5	39.000	10000+00	116.00	.1085	.8990-01	.1085	.5323-02	.4412-02	.5323-02	1.680	1.249	541.2
5	40.000	15000	117.00	.1580	.7590-01	.1580	.3969-02	.3294-02	.3969-02	2.587	16.41	546.8
5	40.000	20000	118.00	.8690-01	.7170-01	.8690-01	.4265-02	.3518-02	.4265-02	4.855	35.56	575.5
5	42.500	15000	127.00	.1066	.8830-01	.1066	.5228-02	.4332-02	.5228-02	2.684	22.66	556.7
5	45.000	92500	969.00	.9150-01	.7590-01	.9150-01	.4487-02	.3724-02	.4487-02	2.523	17.07	551.4
5	45.000	95000	973.00	.1800-01	.1500-01	.1800-01	.8860-03	.7369-03	.8860-03	1.5870	1.356	544.1
5	45.000	97500	978.00	.5100-02	.4300-02	.5100-02	.2526-03	.2102-03	.2526-03	1.070	7.950	540.9
5	51.000	20000	118.00	.4580-01	.3800-01	.4580-01	.2246-02	.1866-02	.2246-02	1.680	1.249	541.2
5	60.000	50000-01	131.00	.4600-01	.3830-01	.4600-01	.2258-02	.1877-02	.2258-02	1.473	9.355	546.8
5	67.500	20000	128.00	.2930-01	.2490-01	.2930-01	.1469-02	.1221-02	.1469-02	1.485	10.02	545.2
5	75.000	97500	977.00	.6100-02	.5000-02	.6100-02	.2979-03	.2479-03	.2979-03	1.980	1.471	541.7
4	85.000	97500	976.00	.9000-02	.7500-02	.9000-02	.4443-03	.3697-03	.4443-03	1.980	2.193	542.2
5	105.00	40100	135.00	.1710-01	.1420-01	.1710-01	.8402-03	.6987-03	.8402-03	2.950	4.277	543.2
5	105.00	50100	136.00	.2570-01	.2140-01	.2570-01	.1263-02	.1049-02	.1263-02	2.056	6.571	547.4
5	105.00	60100	137.00	.6470-01	.5360-01	.6470-01	.3175-02	.2632-02	.3175-02	2.056	16.25	555.2
5	105.00	70100	138.00	.2700-01	.2240-01	.2700-01	.1325-02	.1100-02	.1325-02	2.950	4.277	543.2
5	105.00	80000	139.00	.8200-02	.6900-02	.8200-02	.4041-03	.3361-03	.4041-03	1.980	2.193	542.2
5	113.00	60100	146.00	.2780-01	.2310-01	.2780-01	.1366-02	.1135-02	.1366-02	2.950	4.277	543.2
5	116.00	60100	147.00	.3320-01	.2760-01	.3320-01	.1628-02	.1352-02	.1628-02	2.950	4.277	543.2
5	116.00	75100	148.00	.4520-01	.3750-01	.4520-01	.2220-02	.1840-02	.2220-02	1.438	11.36	555.1
5	120.00	10000+00	132.00	.1470-01	.1220-01	.1470-01	.7214-03	.6004-03	.7214-03	4.790	2.889	539.3
5	120.00	80500	247.00	.1238	.1024	.1238	.6076-02	.5025-02	.6076-02	3.879	31.47	564.4

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1802)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(1970) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1740) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTADT DEG. R /SEC	TW DEG. R
5	120.00	.82900	248.00	.8670-01	.7180-01	.8670-01	.4252-02	.3525-02	.4252-02	2.753	22.45	555.4
5	120.00	.86200	249.00	.5700-01	.4730-01	.5700-01	.2796-02	.2323-02	.2796-02	1.834	13.32	547.0
5	130.00	.80500	253.00	.8000-01	.6630-01	.8000-01	.3926-02	.3254-02	.3926-02	2.540	20.06	556.0
5	130.00	.82900	254.00	.5710-01	.4740-01	.5710-01	.2802-02	.2326-02	.2802-02	1.827	14.03	550.9
5	130.00	.86200	255.00	.2760-01	.2300-01	.2760-01	.1356-02	.1128-02	.1356-02	.7331	7.331	544.4
5	130.00	.96300	256.00	.1150-01	.9500-02	.1150-01	.5619-03	.4677-03	.5619-03	.3730	3.399	539.3
5	135.00	.40100	142.00	.1300-02	.1000-02	.1300-02	.6179-04	.5146-04	.6179-04	.4100-01	.3190	537.3
5	135.00	.50100	143.00	.2600-02	.2100-02	.2600-02	.1254-03	.1044-03	.1254-03	.8300-01	.6860	538.7
5	135.00	.60100	144.00	.9000-02	.7500-02	.9000-02	.4438-03	.3693-03	.4438-03	.2940	2.273	540.3
5	135.00	.70100	145.00	.8800-02	.7300-02	.8800-02	.4322-03	.3596-03	.4322-03	.2860	2.284	540.1
5	140.00	.18000	85.000	.9800-02	.8100-02	.9800-02	.4797-03	.3991-03	.4797-03	.3170	2.440	541.5
5	140.00	.19500	87.000	.1520-01	.1270-01	.1520-01	.7464-03	.6209-03	.7464-03	.4930	3.796	541.6
5	145.00	.80500	259.00	.4780-01	.3970-01	.4780-01	.2347-02	.1948-02	.2347-02	1.532	11.77	550.0
6	145.00	.82900	260.00	.1630-01	.1360-01	.1630-01	.8034-03	.6690-03	.8034-03	.5360	4.027	539.2
6	145.00	.86200	261.00	.4900-02	.4100-02	.4900-02	.2425-03	.2021-03	.2425-03	.1630	1.344	535.5
5	150.00	.18000	84.000	.2480-01	.2060-01	.2480-01	.5702-03	.4743-03	.5702-03	.3770	2.804	541.5
5	150.00	.19000	82.000	.7000-03	.6000-03	.7000-03	.3334-04	.2776-04	.3334-04	.8000	5.939	544.8
5	155.00	.16000	80.000	.4800-01	.1010-01	.4800-01	.5935-03	.4938-03	.5935-03	.2200-01	.1650	537.8
5	160.00	.18000	77.000	.3980-01	.3980-01	.3980-01	.2353-02	.1952-02	.2353-02	.5930	2.919	541.4
5	175.00	.15000	81.000	.2380-01	.1880-01	.2380-01	.1167-02	.9704-03	.1167-02	.7700	5.533	543.3
5	175.00	.16500	79.000	.3140-01	.2610-01	.3140-01	.1539-02	.1278-02	.1539-02	1.009	7.479	547.3
5	175.00	.17500	78.000	.6630-01	.5500-01	.6630-01	.3255-02	.2699-02	.3255-02	2.113	15.12	553.6
4	180.00	.10000-01	59.000	.2232	.1842	.2232	.1097-01	.9048-02	.1097-01	6.933	50.73	573.8
4	180.00	.25000-01	60.000	.6670-01	.5540-01	.6670-01	.3277-02	.2722-02	.3277-02	2.152	15.43	549.2
4	180.00	.50000-01	61.000	.2900-01	.2410-01	.2900-01	.1423-02	.184-02	.1423-02	.9440	6.010	542.8
4	180.00	.75000-01	62.000	.1390-01	.1160-01	.1390-01	.6844-03	.5696-03	.6844-03	.4550	2.901	541.1
4	180.00	.10000+00	63.000	.9200-02	.7600-02	.9200-02	.4508-03	.3752-02	.4508-03	.3080	1.968	540.7
4	180.00	.15000	64.000	.7400-02	.6100-02	.7400-02	.3617-03	.3010-03	.3617-03	.2410	1.678	540.8
4	180.00	.16000	65.000	.9400-02	.7800-02	.9400-02	.4602-03	.3831-03	.4602-03	.3060	2.135	540.8
4	180.00	.17000	66.000	.3990-01	.3320-01	.3990-01	.1961-02	.1630-02	.1961-02	1.292	7.187	547.1
4	180.00	.20000	67.000	.6390-01	.5310-01	.6390-01	.3140-02	.2608-02	.3140-02	2.061	11.44	549.9
4	180.00	.40100	69.000	.1240-01	.1030-01	.1240-01	.6079-03	.5061-03	.6079-03	.4050	2.510	540.2
4	180.00	.50000	72.000	.1790-01	.1490-01	.1790-01	.8810-03	.7330-03	.8810-03	.5850	4.969	542.2
4	180.00	.60100	73.000	.1300-01	.1080-01	.1300-01	.6375-03	.5305-03	.6375-03	.4240	3.600	541.5
4	180.00	.74.000	74.000	.7400-02	.6100-02	.7400-02	.3622-03	.3015-03	.3622-03	.2410	1.986	539.9
4	180.00	.70100	75.000	.3600-02	.3000-02	.3600-02	.1767-03	.1471-03	.1767-03	.1180	.9410	538.6

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
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(RV1803)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.03 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = .0003 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	P0 PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
172	7.900	.5294	30.08	.0000	180.0	106.2	.1200-01	1272.	94.30	.5250	3760.	.1069-04
173	7.900	.5376	30.06	.0000	180.0	110.1	.1200-01	1273.	94.50	.5340	3762.	.1087-04
174	7.900	.5305	30.05	.0000	180.0	108.8	1200-01	1275.	94.50	.5280	3764.	.1073-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR R =
172	LB-SEC /FT2		0.0175
173	.7594-07	.1773-01	.5562-01
174	.7604-07	.1789-01	.5518-01
174	.7612-07	.1779-01	.5554-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTMDT DEG. R /SEC	TM DEG. R
172	.00000	.00000	1.0000	.7879	.6474	.6798	.1397-01	.1148-01	.1205-01	8.186	45.26	558.6
172	.00000	.50000-02	2.0000	.7567	.6202	.6236	.1342-01	.1100-01	.1106-01	7.752	53.35	566.8
172	.00000	.10000-01	3.0000	.6219	.5110	.5279	.1103-01	.9050-02	.9360-02	6.457	43.26	559.1
172	.00000	.20000-01	4.0000	.3979	.3283	.3523	.7055-02	.5820-02	.6247-02	4.230	23.55	545.0
172	.00000	.30000-01	5.0000	.2943	.2430	.2659	.5217-02	.4308-02	.4715-02	3.145	17.54	541.7
172	.00000	.40000-01	6.0000	.2408	.1989	.2205	.4269-02	.3526-02	.3910-02	2.578	14.38	540.8
172	.00000	.50000-01	7.0000	.2319	.1914	.2144	.4112-02	.3394-02	.3802-02	2.470	16.68	543.9
172	.00000	.60000-01	8.0000	.2299	.1897	.2141	.4076-02	.3364-02	.3796-02	2.451	15.61	543.3
172	.00000	.70000-01	9.0000	.1973	.1628	.1851	.3499-02	.2887-02	.3282-02	2.101	14.63	544.0
172	.00000	.80000-01	10.000	.1573	.1299	.1484	.2788-02	.2302-02	.2631-02	1.681	11.71	541.8
172	.00000	.90000-01	11.000	.1467	.1212	.1390	.2601-02	.2149-02	.2465-02	1.574	10.04	539.5
172	.00000	.10000-00	12.000	.1312	.1084	.1248	.2327-02	.1923-02	.2213-02	1.409	8.505	539.0
172	.00000	.12000	14.000	.1473	.1217	.1408	.2612-02	.2159-02	.2497-02	1.583	8.839	538.6
172	.00000	.13000	15.000	.1177	.9730-01	.1127	.2087-02	.1725-02	.1999-02	1.264	7.432	538.7
172	.00000	.14000	16.000	.1061	.8770-01	.1017	.1881-02	.1554-02	.1804-02	1.140	7.277	538.4
172	.00000	.16000	18.000	.1085	.8970-01	.1043	.1924-02	.1590-02	.1849-02	1.166	7.234	538.6
172	.00000	.17000	19.000	.1073	.8860-01	.1032	.1902-02	.1572-02	.1830-02	1.151	7.347	539.1

RUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAM)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	COOT BTU/ R FT2SEC	DTMOT DEG. R /SEC	TH DEG. R
172	.00000	.12000	20.000	.1077	.8900-01	.1038	.1910-02	.1579-02	.1840-02	.1157	7.381	539.1
172	.00000	.19000	21.000	.1028	.8500-01	.9920-01	.1823-02	.1507-02	.1758-02	1.106	7.061	537.9
172	.00000	.22000	22.000	.1010	.8350-01	.9750-01	.1791-02	.1480-02	.1730-02	1.084	6.919	539.1
172	.00000	.22500	23.000	.9590-01	.7920-01	.9280-01	.1700-02	.1405-02	.1646-02	1.030	6.574	538.7
172	.00000	.25000	801.00	.9190-01	.7600-01	.8920-01	.1630-02	.1347-02	.1581-02	.9870	6.302	538.8
172	.00000	.30000	802.00	.8420-01	.360-01	.8170-01	.1494-02	.1234-02	.1449-02	.9040	5.766	539.5
172	.00000	.35000	803.00	.8550-01	.7070-01	.8300-01	.1518-02	.1254-02	.1472-02	.9160	5.836	541.4
172	.00000	.40000	804.00	.8490-01	.7110-01	.8230-01	.1505-02	.1243-02	.1460-02	.9070	5.953	541.8
172	.00000	.45000	805.00	.7960-01	.6570-01	.7720-01	.1411-02	.1164-02	.1368-02	.8480	5.726	543.5
172	.00000	.50000	806.00	.7150-01	.5900-01	.6940-01	.1268-02	.1047-02	.1230-02	.7620	5.302	544.1
172	.00000	.55000	807.00	.6850-01	.5650-01	.6640-01	.1214-02	.1001-02	.1177-02	.7270	5.397	545.4
172	.00000	.60000	808.00	.6240-01	.5140-01	.6050-01	.1106-02	.0922-03	.1072-02	.6630	4.919	545.2
172	.00000	.65000	809.00	.5910-01	.4870-01	.5730-01	.1047-02	.0838-03	.1016-02	.6270	4.651	546.0
172	.00000	.70000	810.00	.5480-01	.4520-01	.5320-01	.09719-03	.0817-03	.09425-03	.5820	4.469	545.5
172	.00000	.75000	811.00	.5740-01	.4740-01	.5570-01	.1018-02	.08400-03	.09873-03	.6100	4.531	545.0
172	.00000	.80000	812.00	.5790-01	.4770-01	.5610-01	.1026-02	.08466-03	.0948-03	.6160	4.576	543.9
172	.00000	.85000	813.00	.5750-01	.4750-01	.5640-01	.1020-02	.08419-03	.1000-02	.6130	4.715	543.1
172	.00000	.90000	814.00	.5040-01	.4170-01	.4960-01	.08944-03	.07387-03	.08789-03	.5400	3.885	541.0
172	.00000	.92500	815.00	.4190-01	.3460-01	.4130-01	.07433-03	.06142-03	.07323-03	.4500	3.721	539.3
172	.00000	.95000	816.00	.3780-01	.3130-01	.3740-01	.0706-03	.05543-03	.06225-03	.4060	3.363	538.5
172	.00000	.97500	817.00	.3600-01	.2980-01	.3570-01	.06390-03	.05282-03	.06329-03	.3870	3.205	538.4
172	.00000	1.0150	818.00	.2120-01	.1750-01	.2100-01	.03955-03	.03107-03	.03728-03	.2300	1.718	531.7
172	.00000	1.0300	819.00	.2250-01	.1870-01	.2240-01	.03995-03	.03309-03	.03699-03	.2450	1.834	530.6
172	.00000	1.0450	820.00	.2200-01	.1830-01	.2190-01	.03908-03	.03238-03	.03883-03	.2400	1.923	530.4
172	.00000	1.0500	821.00	.2220-01	.1840-01	.2210-01	.03936-03	.03262-03	.03910-03	.2420	2.052	528.9
172	.00000	1.0600	822.00	.2200-01	.1800-01	.2200-01	.03936-03	.03262-03	.03910-03	.2400	.6730	528.7
172	.00000	1.0700	823.00	.2200-01	.1800-01	.2200-01	.03936-03	.03262-03	.03910-03	.2400	.9520	529.4
172	.00000	1.0800	824.00	.2200-01	.1800-01	.2200-01	.03936-03	.03262-03	.03910-03	.2400	1.193	529.4
172	.00000	1.0900	825.00	.2200-01	.1800-01	.2200-01	.03936-03	.03262-03	.03910-03	.2400	7.117	544.7
172	.00000	1.1000	826.00	.2200-01	.1800-01	.2200-01	.03936-03	.03262-03	.03910-03	.2400	6.655	547.3
172	.00000	1.1100	827.00	.2200-01	.1800-01	.2200-01	.03936-03	.03262-03	.03910-03	.2400	5.107	547.1
172	.00000	1.1200	828.00	.2200-01	.1800-01	.2200-01	.03936-03	.03262-03	.03910-03	.2400	4.856	547.0
172	.00000	1.1300	829.00	.2200-01	.1800-01	.2200-01	.03936-03	.03262-03	.03910-03	.2400	4.644	544.0
172	.00000	1.1400	830.00	.2200-01	.1800-01	.2200-01	.03936-03	.03262-03	.03910-03	.2400	3.938	540.8
172	.00000	1.1500	831.00	.2200-01	.1800-01	.2200-01	.03936-03	.03262-03	.03910-03	.2400	13.00	536.7
172	.00000	1.1600	832.00	.2200-01	.1800-01	.2200-01	.03936-03	.03262-03	.03910-03	.2400	8.728	533.9
172	.00000	1.1700	833.00	.2200-01	.1800-01	.2200-01	.03936-03	.03262-03	.03910-03	.2400	3.001	538.4
172	.00000	1.1800	834.00	.2200-01	.1800-01	.2200-01	.03936-03	.03262-03	.03910-03	.2400	4.294	538.0
172	.00000	1.1900	835.00	.2200-01	.1800-01	.2200-01	.03936-03	.03262-03	.03910-03	.2400	4.588	535.9
172	.00000	1.2000	836.00	.2200-01	.1800-01	.2200-01	.03936-03	.03262-03	.03910-03	.2400	14.47	535.9
172	.00000	1.2100	837.00	.2200-01	.1800-01	.2200-01	.03936-03	.03262-03	.03910-03	.2400	.6730	528.7
172	.00000	1.2200	838.00	.2200-01	.1800-01	.2200-01	.03936-03	.03262-03	.03910-03	.2400	15.33	538.0
172	.00000	1.2300	839.00	.2200-01	.1800-01	.2200-01	.03936-03	.03262-03	.03910-03	.2400	14.02	537.8

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V418-57A (OH-498) COLLATION DECK

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(RV1803)

OH-498 (AEDC V418-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(OTO) BTU/ R FT2SEC	H(OTAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
172	30.000	.92500	970.00	.2470-01	.2040-01	.2470-01	.4372-03	.3618-03	.2670	1.989	534.9
172	30.000	.95000	974.00	.3520-01	.2910-01	.3520-01	.6236-03	.5161-03	.3810	2.844	533.7
172	30.000	.97500	979.00	.2360-01	.1960-01	.2360-01	.4180-03	.3468-03	.2590	1.941	525.1
173	31.500	.20000	108.00	.9570-01	.7910-01	.9570-01	.1711-02	.1416-02	1.044	10.62	535.9
172	32.000	.40000	831.00	.1064	.8780-01	.1032	.1886-02	.1557-02	1.134	7.893	543.7
172	32.000	.50000	832.00	.8840-01	.7290-01	.8570-01	.1567-02	.1292-02	.9360	6.718	547.0
172	32.000	.60000	833.00	.7540-01	.6210-01	.7310-01	.1336-02	.1101-02	.7970	5.370	548.0
172	32.000	.70000	834.00	.3600-01	.2970-01	.3490-01	.6390-03	.5267-03	.3810	2.920	548.4
172	32.000	.80000	835.00	.5160-01	.4260-01	.5000-01	.9146-03	.8870-03	.5500	3.954	543.2
172	32.000	.90000	836.00	.4510-01	.3730-01	.4430-01	.8001-03	.7863-03	.4840	3.603	539.5
172	32.000	.95000	837.00	.4930-01	.4070-01	.4870-01	.8737-03	.8631-03	.5310	4.089	537.4
172	32.000	.97500	838.00	.4130-01	.3420-01	.4090-01	.7323-03	.7253-03	.4470	3.576	534.0
172	32.000	1.0150	839.00	.3130-01	.2600-01	.3000-01	.5556-03	.5312-03	.3420	2.787	529.8
172	32.000	1.0300	840.00	.3320-01	.2750-01	.3180-01	.5890-03	.5631-03	.3620	2.855	529.1
172	32.000	1.0450	841.00	.3150-01	.2610-01	.3020-01	.5593-03	.5347-03	.3440	2.665	528.9
172	32.000	1.0600	842.00	.2920-01	.2420-01	.2800-01	.5185-03	.4957-03	.3190	2.656	528.6
173	35.000	.50000-01	115.00	.1433	.1187	.1433	.2564-02	.2123-02	1.571	10.05	537.8
173	35.000	.20000	110.00	.1013	.8390-01	.1013	.1812-02	.1498-02	1.102	11.20	531.9
173	39.000	1.0000+00	116.00	.1082	.8960-01	.1082	.1935-02	.1603-02	1.188	7.611	531.9
173	40.000	.76000-01	121.00	.7760-01	.6430-01	.7760-01	.1389-02	.1151-02	1.938	5.484	530.0
173	40.000	.15000	111.00	.1477	.8500-01	.1028	.1839-02	.1520-02	1.116	12.46	539.4
173	40.000	.20000	112.00	.1028	.8940-01	.1028	.1932-02	.1600-02	1.187	8.066	531.5
173	42.500	.50000-01	127.00	.1080	.8920-01	.1080	.1597-02	.1323-02	.9820	5.795	531.1
173	45.000	.15000	117.00	.8920-01	.7390-01	.8920-01	.3402-04	.3402-04	.2100-01	.1570	529.0
172	45.000	.92500	969.00	.1900-02	.1600-02	.1900-02	.2820-04	.2820-04	.1200-01	9.100-01	529.6
172	45.000	.97500	978.00	.1100-02	.9000-03	.1100-02	.1988-04	.1988-04	.5670	3.637	530.1
173	51.000	.20000	118.00	.5150-01	.4270-01	.5150-01	.9210-03	.7632-03	.4420	3.007	528.2
173	60.000	.50000-01	131.00	.4000-01	.3310-01	.4000-01	.7152-03	.5930-03	.3420	2.563	528.9
173	67.500	.20000	128.00	.3100-01	.2570-01	.3100-01	.5548-03	.5548-03	.8000-02	.6300-01	529.7
172	75.000	.97500	977.00	.8000-03	.6000-03	.8000-03	.1370-04	.1135-04	.3420	2.563	528.9
172	85.000	.97500	976.00	.5000-03	.4000-03	.5000-03	.8275-05	.6857-05	.5000-02	.3800-01	529.5
173	105.00	.40100	135.00	.2220-01	.1840-01	.2220-01	.3970-03	.3288-03	.2440	1.895	531.8
173	105.00	.50100	136.00	.2170-01	.1790-01	.2170-01	.3675-03	.3208-03	.2370	1.898	534.1
173	105.00	.60100	137.00	.1430-01	.1180-01	.1430-01	.2558-03	.2118-03	.1570	1.256	533.1
173	105.00	.70100	138.00	.5300-02	.4400-02	.5300-02	.9507-04	.7876-04	.5800-01	1.450	531.2
173	105.00	.80000	139.00	.1500-02	.1200-02	.1500-02	.2621-04	.2173-04	.1600-01	.1300	527.9
173	113.00	.60100	146.00	.1920-01	.1590-01	.1920-01	.3441-03	.2849-03	.2110	1.690	532.9
173	116.00	.60100	147.00	.1520-01	.1310-01	.1580-01	.2828-03	.2341-03	.1730	1.388	533.2
173	116.00	.75100	148.00	.4300-02	.3600-02	.4300-02	.7660-04	.6365-04	.4700-01	.3170	529.6
173	120.00	1.0000+00	132.00	.1220-01	.1010-01	.1220-01	.2178-03	.1806-03	.1350	.8190	526.7
173	120.00	.80500	247.00	.6300-02	.5200-02	.6300-02	.1130-03	.9371-04	.7000-01	.5820	525.9
173	120.00	.82900	248.00	.8800-02	.7300-02	.8800-02	.1575-03	.1307-03	.9800-01	.8100	526.5
173	120.00	.86200	249.00	.1000-01	.8300-02	.1000-01	.1785-03	.1480-03	.1110	.8130	526.5

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AEDC VKF V41B-57A (OH-498) COLLATION CHECK

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
173	130.00	.80500	253.00	.7900-02	.6500-02	.7900-02	.1406-03	.1166-03	.1406-03	.8700-01	.7010	525.8
173	130.00	.82900	254.00	.1310-01	.1090-01	.1310-01	.2351-03	.1951-03	.2351-03	.8700-01	1.137	525.9
173	130.00	.86200	255.00	.1490-01	.1230-01	.1480-01	.2554-03	.2201-03	.2554-03	.1640	1.355	526.3
173	135.00	.40100	142.00	.2100-02	.1700-02	.2100-02	.3702-04	.3069-04	.3702-04	.2300-01	1.780	528.8
173	135.00	.50100	143.00	.3000-02	.2500-02	.3000-02	.5373-04	.4453-04	.5373-04	.3300-01	.2740	529.5
173	135.00	.60100	144.00	.3700-02	.3000-02	.3700-02	.6575-04	.5450-04	.6575-04	.4100-01	.3160	528.3
173	135.00	.70100	145.00	.3000-02	.2500-02	.3000-02	.5346-04	.4432-04	.5346-04	.3300-01	.2650	528.4
173	140.00	.18000	85.000	.2370-01	.1960-01	.2370-01	.4235-03	.3514-03	.4235-03	.2630	2.039	525.2
173	140.00	.19500	87.000	.6200-02	.5200-02	.6200-02	.1115-03	.9246-04	.1115-03	.6900-01	.5350	527.2
173	145.00	.80500	259.00	.6600-02	.5500-02	.6600-02	.1188-03	.9841-04	.1188-03	.7400-01	.5750	525.9
174	145.00	.82900	260.00	.3060-01	.2540-01	.3060-01	.5436-03	.4511-03	.5436-03	.3380	2.557	525.0
174	145.00	.86200	261.00	.3700-02	.3100-02	.3700-02	.6538-04	.5427-04	.6538-04	.4100-01	.3380	526.8
173	150.00	.16000	86.000	.8700-02	.7200-02	.8700-02	.1563-03	.1297-03	.1563-03	.9700-01	.7250	527.1
173	150.00	.18000	84.000	.9300-02	.7700-02	.9300-02	.1671-03	.1385-03	.1671-03	.1030	.7750	535.0
173	150.00	.19000	82.000	.1000-03	.1000-03	.1000-03	.1968-05	.1629-05	.1968-05	.1000-02	.9000-02	527.1
173	150.00	.16000	80.000	.6700-02	.5500-02	.6700-02	.1191-03	.9881-04	.1191-03	.7400-01	.5520	528.5
173	150.00	.18000	77.000	.1990-01	.1650-01	.1990-01	.3563-03	.2954-03	.3563-03	.2200	1.765	528.5
173	150.00	.15000	81.000	.1450-01	.1200-01	.1450-01	.2586-03	.2144-03	.2586-03	.1600	1.157	528.3
173	175.00	.16500	79.000	.1660-01	.1380-01	.1660-01	.2972-03	.2464-03	.2972-03	.1840	1.374	529.6
173	175.00	.17500	78.000	.3110-01	.2580-01	.3110-01	.5560-03	.4608-03	.5560-03	.3430	2.481	541.0
172	180.00	.10000-01	59.000	.1841	.1521	.1841	.3265-02	.2697-02	.3265-02	.1970	14.65	533.6
172	180.00	.25000-01	60.000	.5570-01	.4610-01	.5570-01	.9876-03	.8174-03	.9876-03	.6030	4.359	531.7
172	180.00	.50000-01	61.000	.2570-01	.2130-01	.2570-01	.4562-03	.3778-03	.4562-03	.2800	1.791	530.1
172	180.00	.75000-01	62.000	.1350-01	.1120-01	.1350-01	.2390-03	.1980-03	.2390-03	.1470	.9400	530.7
172	180.00	.10000-01	63.000	.9500-02	.7800-02	.9500-02	.1680-03	.1332-03	.1680-03	.1030	.6810	529.9
172	180.00	.12500	64.000	.9100-02	.7500-02	.9100-02	.1609-03	.1333-03	.1609-03	.9900-01	.6930	529.9
172	180.00	.15000	65.000	.1100-01	.9100-02	.1100-01	.1954-03	.1619-03	.1954-03	.1200	.8420	530.8
172	180.00	.16000	66.000	.2400-01	.1990-01	.2400-01	.4252-03	.3522-03	.4252-03	.2610	1.463	532.8
172	180.00	.17000	67.000	.6460-01	.5350-01	.6460-01	.1146-02	.9490-03	.1146-02	.7010	3.328	530.7
172	180.00	.20000	69.000	.1520-01	.1260-01	.1520-01	.2690-03	.2228-03	.2690-03	.1650	1.029	530.4
172	180.00	.40100	72.000	.4300-02	.3600-02	.4300-02	.7678-04	.6361-04	.7678-04	.4700-01	.4040	530.9
172	180.00	.50000	73.000	.4600-02	.3800-02	.4600-02	.8157-04	.6757-04	.8157-04	.5000-01	.4280	530.6
172	180.00	.60100	74.000	.5800-02	.4800-02	.5800-02	.1029-03	.8520-04	.1029-03	.6300-01	.5230	529.7
172	180.00	.70100	75.000	.5700-02	.4700-02	.5700-02	.1013-03	.8390-04	.1013-03	.6200-01	.5000	

PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000

BOFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
145	7.940	1.017	30.06	.0000	180.0	210.8	.2300-01	1272.	93.50	1.000	3762.	.2034-04
146	7.940	1.013	30.05	.0000	180.0	210.9	.2300-01	1276.	93.70	1.001	3767.	.2030-04
147	7.940	1.020	30.04	.0000	180.0	212.1	.2300-01	1275.	93.70	1.007	3765.	.2043-04
RUN NUMBER	MACH	RV/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
145	7.940	1.017	30.06	.0000	180.0	210.8	.2300-01	1272.	93.50	1.000	3762.	.2034-04
146	7.940	1.013	30.05	.0000	180.0	210.9	.2300-01	1276.	93.70	1.001	3767.	.2030-04
147	7.940	1.020	30.04	.0000	180.0	212.1	.2300-01	1275.	93.70	1.007	3765.	.2043-04

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AM) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TM DEG. R
145	.00000	.00000	1.0000	.7747	.6328	.6653	.1896-01	.1549-01	.1628-01	10.76	58.94	577.4
145	.00000	.50000-02	2.0000	.7474	.6082	.6117	.1829-01	.1488-01	.1497-01	10.17	69.22	589.2
145	.00000	.10000-01	3.0000	.5775	.4716	.4877	.1413-01	.1154-01	.1193-01	8.008	53.14	578.4
145	.00000	.20000-01	4.0000	.3975	.3266	.3510	.9728-02	.7993-02	.6591-02	5.700	31.51	559.1
145	.00000	.30000-01	5.0000	.2990	.2460	.2697	.7317-02	.6020-02	.6600-02	4.322	23.94	554.4
145	.00000	.40000-01	6.0000	.2404	.1980	.2153	.5884-02	.4846-02	.5382-02	3.495	19.39	551.1
145	.00000	.50000-01	7.0000	.2285	.1879	.2110	.5594-02	.4598-02	.5163-02	3.286	22.03	557.6
145	.00000	.60000-01	8.0000	.2262	.1851	.2104	.5536-02	.4554-02	.5149-02	3.268	20.69	554.8
145	.00000	.70000-01	9.0000	.1898	.1561	.1778	.4644-02	.3819-02	.4351-02	2.735	18.93	556.1
145	.00000	.80000-01	10.000	.1570	.1292	.1480	.3843-02	.3162-02	.3622-02	2.269	15.72	554.6
145	.00000	.90000-01	11.000	.1340	.1104	.1381	.3572-02	.2941-02	.3381-02	2.120	13.44	551.6
145	.00000	.10000+00	12.000	.1460	.1202	.1274	.3280-02	.2701-02	.3117-02	1.948	11.69	551.1
145	.00000	.12000	14.000	.9660-01	.7960-01	.9230-01	.2364-02	.1948-02	.2259-02	1.410	7.839	548.3
145	.00000	.13000	15.000	.1107	.9120-01	.1059	.2709-02	.2232-02	.2593-02	1.613	9.432	549.5
145	.00000	.14000	16.000	.1056	.8700-01	.1012	.2584-02	.2129-02	.2477-02	1.540	9.779	549.0
145	.02000	.16003	18.000	.1065	.8780-01	.1023	.2607-02	.2148-02	.2505-02	1.552	9.580	549.7
145	.00000	.17000	19.000	.1099	.8720-01	.1018	.2591-02	.2135-02	.2492-02	1.542	9.786	570.0

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AEDC VKF V41B-57A (04-498) COLLATION DECK

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04-498 (AEDC V41B-57A) ORBITTER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H19T0 BTU/ R FT2SEC	H1T0 BTU/ R FT2SEC	H1TAN BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
145	.00000	.18000	20.000	.1068	.8800-01	.1028	.2614-02	.2153-02	.2516-02	1.555	9.865	550.3
145	.00000	.19000	21.000	.9820-01	.8090-01	.9470-01	.2614-02	.1981-02	.2317-02	1.433	9.102	548.7
145	.00000	.20000	22.000	.1006	.8290-01	.9710-01	.2463-02	.3029-02	.2377-02	1.466	9.304	549.8
145	.00000	.22500	23.000	.9380-01	.7730-01	.9080-01	.2295-02	.892-02	.2222-02	1.368	8.686	549.1
145	.00000	.25000	801.00	.8960-01	.7380-01	.8680-01	.2192-02	.1806-02	.2125-02	1.306	8.295	549.0
145	.00000	.30000	802.00	.8300-01	.6840-01	.8050-01	.2031-02	.1673-02	.1969-02	1.208	7.669	550.1
145	.00000	.35000	803.00	.8320-01	.6850-01	.8070-01	.2037-02	.1677-02	.1975-02	1.208	7.657	552.0
145	.00000	.40000	804.00	.8230-01	.6780-01	.7980-01	.2014-02	.1658-02	.1952-02	1.195	7.797	551.8
145	.00000	.45000	805.00	.7740-01	.6370-01	.7500-01	.1893-02	.1558-02	.1835-02	1.121	7.531	553.1
145	.00000	.50000	806.00	.6910-01	.5690-01	.6700-01	.1690-02	.1391-02	.1639-02	1.000	6.933	553.2
145	.00000	.55000	807.00	.6520-01	.5370-01	.6320-01	.1596-02	.1313-02	.1547-02	.9420	6.956	554.9
145	.00000	.60000	808.00	.6030-01	.4960-01	.5840-01	.1475-02	.1213-02	.1429-02	.8710	6.433	554.6
145	.00000	.65000	809.00	.5640-01	.4640-01	.5470-01	.1381-02	.1136-02	.1339-02	.8140	6.009	555.8
145	.00000	.70000	810.00	.5270-01	.4330-01	.5110-01	.1289-02	.1060-02	.1249-02	.7600	5.800	555.8
145	.00000	.75000	811.00	.5450-01	.4480-01	.5280-01	.1333-02	.1096-02	.1292-02	.7860	5.803	555.3
145	.00000	.80000	812.00	.5680-01	.4840-01	.5700-01	.1440-02	.1185-02	.1396-02	.8500	6.276	555.0
145	.00000	.85000	813.00	.5500-01	.4520-01	.5390-01	.1345-02	.1107-02	.1319-02	.7950	6.079	554.0
145	.00000	.90000	814.00	.5180-01	.4260-01	.5090-01	.1267-02	.1043-02	.1245-02	.7520	5.387	551.3
145	.00000	.92500	815.00	.3790-01	.3380-01	.4040-01	.1005-02	.8278-03	.9898-03	.5980	4.921	549.8
145	.00000	.95000	816.00	.3760-01	.3100-01	.3720-01	.9268-03	.7637-03	.9154-03	.5520	4.543	549.4
145	.00000	.97500	817.00	.2040-01	.1680-01	.2030-01	.9197-03	.7577-03	.9108-03	.5470	4.504	549.8
145	.00000	1.0150	818.00	.2290-01	.1890-01	.2270-01	.4991-03	.4118-03	.4958-03	.3000	2.225	544.5
145	.00000	1.0300	819.00	.2050-01	.1690-01	.2040-01	.5602-03	.4624-03	.5565-03	.3370	2.503	543.5
145	.00000	1.0450	820.00	.1550-01	.1280-01	.1540-01	.5021-03	.4145-03	.4988-03	.3020	2.403	543.8
145	.00000	1.0600	821.00	.8700-02	.7200-02	.8700-02	.3788-03	.3127-03	.3763-03	.2280	1.915	543.9
145	.00000	1.5000	822.00	.1550-01	.1280-01	.1550-01	.3788-03	.3130-03	.3786-03	.2300	.7760	539.4
145	.00000	2.0000	91.000	.8600-02	.7100-02	.8600-02	.2112-03	.1745-03	.2112-03	.1280	1.425	538.8
145	.00000	2.23.00	823.00	.8130-01	.6690-01	.7880-01	.1991-02	.1637-02	.1929-02	1.174	9.288	555.3
145	.00000	5.0000	824.00	.8000-01	.6580-01	.7760-01	.1959-02	.1610-02	.1898-02	1.152	9.109	556.8
145	.00000	6.0000	825.00	.5210-01	.4290-01	.5050-01	.1276-02	.1049-02	.1237-02	.7500	6.643	557.0
145	.00000	7.0000	826.00	.6040-01	.4970-01	.5860-01	.1479-02	.1216-02	.1433-02	.8700	6.422	556.7
145	.00000	8.0000	827.00	.5800-01	.4770-01	.5630-01	.1420-02	.1168-02	.1377-02	.8380	6.184	555.4
145	.00000	9.0000	828.00	.4640-01	.3820-01	.4560-01	.1135-02	.9347-03	.1115-02	.6740	5.341	551.5
146	.00000	1.0000	103.00	.2024	.1668	.2024	.4958-02	.4085-02	.4958-02	2.961	17.31	550.6
146	.00000	1.5.30	104.00	.1257	.1037	.1257	.3079-02	.2539-02	.3079-02	1.845	11.71	548.9
145	.00000	9.2500	971.00	.6690-01	.5500-01	.6690-01	.1637-02	.1346-02	.1637-02	.9640	7.113	556.3
145	.00000	9.5000	975.00	.6890-01	.5670-01	.6890-01	.1686-02	.1388-02	.1686-02	.9970	7.365	553.9
145	.00000	9.7500	980.00	.7190-01	.5920-01	.7190-01	.1760-02	.1450-02	.1760-02	1.045	7.730	551.5
146	.00000	5.0000	105.00	.2379	.1961	.2379	.5825-02	.4803-02	.5825-02	3.491	19.40	548.7
145	.00000	2.0000	93.000	.1070-01	.8900-02	.1070-01	.2629-03	.2173-03	.2629-03	.1590	.9890	539.0
146	.00000	1.0000	106.00	.2209	.1819	.2209	.5409-02	.4455-02	.5409-02	3.221	20.42	552.5
146	.00000	1.5000	107.00	.1401	.1154	.1401	.3431-02	.2826-02	.3431-02	2.043	18.12	552.7

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



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AEDC VKF V413-57A (OH-498) COLLATION CHECK

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OH-498 (AEDC V418-57A) ORBITER FUSELAGE

(RV1803)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9T0) BTU/ R FT2SEC	H(T0) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTADT DEG. R /SEC	TW DEG. R
145	30.000	.92500	970.00	.5570-01	.4590-01	.5570-01	.1364-02	.1124-02	.1364-02	.8110	6.003	550.6
145	30.000	.95000	974.00	.5950-01	.4910-01	.5950-01	.1460-02	.1202-02	.1460-02	.8670	6.418	550.9
145	30.000	.97500	979.00	.2920-01	.2410-01	.2920-01	.7135-03	.5894-03	.7135-03	.4310	3.207	540.8
146	31.500	.20000	108.00	.9520-01	.7840-01	.9520-01	.2331-02	.1920-02	.2331-02	1.389	14.01	551.8
145	32.000	.40000	931.00	.1067	.8780-01	.1034	.2611-02	.2148-02	.2631-02	1.542	10.68	554.3
145	32.000	.50000	832.00	.8980-01	.7050-01	.8310-01	.2099-02	.1725-02	.2034-02	1.234	8.809	557.1
145	32.000	.60000	833.00	.7550-01	.6200-01	.7320-01	.1848-02	.1518-02	.1791-02	1.058	7.265	558.5
145	32.000	.70000	834.00	.7370-01	.6050-01	.7141-01	.1803-02	.1482-02	.1747-02	1.084	8.071	558.2
145	32.000	.80000	835.00	.5310-01	.4370-01	.5141-01	.1299-02	.1069-02	.1259-02	.7670	5.478	555.0
145	32.000	.90000	836.00	.4540-01	.3740-01	.4460-01	.1111-02	.1032-02	.1092-02	.6600	4.883	551.2
145	32.000	.95000	837.00	.5120-01	.4220-01	.5060-01	.1253-02	.1032-02	.1233-02	.7450	5.708	550.3
145	32.000	.97500	838.00	.5070-01	.4180-01	.5030-01	.1242-02	.1023-02	.1230-02	.7390	5.860	550.1
145	32.000	1.0150	839.00	.2810-01	.2320-01	.2660-01	.6874-03	.5671-03	.6564-03	.4130	3.341	544.9
145	32.000	1.0300	840.00	.3660-01	.2520-01	.2920-01	.7485-03	.6178-03	.7149-03	.4500	3.517	544.0
145	32.000	1.0450	841.00	.3150-01	.2600-01	.3010-01	.7713-03	.6364-03	.7365-03	.4630	3.557	544.5
145	32.000	1.0600	842.00	.2780-01	.2300-01	.2660-01	.6804-03	.5617-03	.6517-03	.4090	3.379	543.4
146	35.000	.50000-01	115.00	.1432	.1181	.1432	.3506-02	.2892-02	.3506-02	1.106	13.38	554.4
146	35.000	.20000	110.00	.1079	.8880-01	.1079	.2642-02	.2175-02	.2642-02	1.569	15.81	554.1
146	39.000	.10000+00	116.00	.1054	.8700-01	.1054	.2582-02	.2130-02	.2582-02	1.172	9.874	546.4
146	40.000	.76000-01	121.00	.7920-01	.6540-01	.7920-01	.1941-02	.1602-02	.1941-02	1.553	7.463	543.9
146	40.000	.15000	111.00	.1754	.1443	.1754	.4295-02	.3534-02	.4295-02	2.544	18.79	555.6
146	40.000	.20000	112.00	.1024	.8430-01	.1024	.2508-02	.2064-02	.2508-02	1.484	16.43	556.2
146	42.500	.50000-01	127.00	.1027	.8470-01	.1027	.2514-02	.2075-02	.2514-02	1.516	10.23	545.0
145	45.000	.92500	969.00	.9030-01	.7450-01	.9030-01	.2211-02	.1824-02	.2211-02	1.332	7.805	545.3
145	45.000	.95000	973.00	.6000-03	.5000-03	.6000-03	.2059-03	.1702-03	.2059-03	.9300	.6700-01	537.2
145	45.000	.97500	978.00	.6000-03	.5000-03	.6000-03	.1483-04	.1227-04	.1483-04	.9000-02	.7000-01	536.7
146	51.000	.20000	118.00	.5160-01	.4260-01	.5160-01	.1552-04	.1283-04	.1552-04	.9000-02	.7000-01	536.7
146	60.000	.50000-01	131.00	.3810-01	.3150-01	.3810-01	.1263-02	.1043-02	.1263-02	.7640	4.862	543.5
146	67.500	.20000	128.00	.3020-01	.2490-01	.3020-01	.9336-03	.7717-03	.9336-03	.5670	3.838	540.3
145	85.000	.97503	976.00	.5000-03	.4000-03	.5000-03	.7389-03	.6103-03	.7389-03	.4470	3.323	542.8
146	105.00	.40100	135.00	.2280-01	.1880-01	.2280-01	.1255-04	.1038-04	.1255-04	.8000-02	.5700-01	536.7
146	105.00	.50100	136.00	.2680-01	.2280-01	.2680-01	.5580-03	.4609-03	.5580-03	.3380	2.610	543.8
146	105.00	.60100	137.00	.1480-01	.1230-01	.1480-01	.6566-03	.5421-03	.6566-03	.3970	3.156	542.9
146	105.00	.70100	138.00	.5600-02	.5400-02	.5600-02	.3633-03	.3000-03	.3633-03	.2200	1.750	540.9
146	105.00	.80000	139.00	.6000-03	.5000-03	.6000-03	.1612-03	.1332-03	.1612-03	.9800-01	.7800	540.9
146	113.00	.2340-01	146.00	.2340-01	.1930-01	.2340-01	.1511-04	.1249-04	.1511-04	.9000-02	.7400-01	537.9
146	116.00	.60100	147.00	.1960-01	.1620-01	.1960-01	.4799-03	.3964-03	.4799-03	.3460	2.756	542.7
146	116.00	.75100	148.00	.6800-02	.5600-02	.6800-02	.3964-03	.3296-03	.3964-03	.2900	2.312	542.8
146	120.00	.10000+00	132.00	.1130-01	.9400-02	.1130-01	.1669-03	.1380-03	.1669-03	.1020	.8090	539.9
146	120.00	.80500	247.00	.5500-02	.4500-02	.5500-02	.2777-03	.2296-03	.2777-03	.1690	1.019	539.8
146	120.00	.82900	246.00	.6500-02	.5400-02	.6500-02	.1335-03	.1104-03	.1335-03	.8200-01	.6720	537.3
146	120.00	.86200	249.00	.9600-02	.8000-02	.9600-02	.1594-03	.1319-03	.1594-03	.9700-01	.8020	537.5
146	120.00						.2356-03	.1950-03	.2356-03	.1440	1.053	536.3

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(RV1803)

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (YAN)	H(9TO) BTU/ R FT/SEC	H(1TO) BTU/ R FT/SEC	H(1AN) BTU/ R FT/SEC	QDOT BTU/ FT/SEC	DTTOT DEG. R /SEC	TW DEG. R
146	130.00	.80500	253.00	.7300-02	.6000-02	.7300-02	.1780-03	.1473-03	.1780-03	.1090	.8690	537.3
146	130.00	.82900	254.00	.1210-01	.1000-01	.1210-01	.2971-03	.2458-03	.2971-03	.1810	1.405	537.4
146	130.00	.86200	255.00	.1470-01	.1210-01	.1470-01	.3591-03	.2970-03	.3591-03	.2190	1.809	537.2
146	135.00	.40100	142.00	.1700-02	.1400-02	.1700-02	.4060-04	.3358-04	.4060-04	.2500-01	.1910	538.6
146	135.00	.50100	143.00	.2900-02	.2400-02	.2900-02	.7213-04	.5964-04	.7213-04	.4400-01	.3620	539.1
146	135.00	.60100	144.00	.3900-02	.3200-02	.3900-02	.9523-04	.7874-04	.9523-04	.5800-01	.4490	538.9
146	135.00	.70100	145.00	.2800-02	.2300-02	.2800-02	.6839-04	.5656-04	.6839-04	.4200-01	.3330	539.3
146	135.00	.80100	145.00	.1540-01	.1280-01	.1540-01	.3781-03	.3125-03	.3781-03	.2300	1.768	540.4
146	140.00	.18000	85.000	.6700-02	.5500-02	.6700-02	.1638-03	.1354-03	.1638-03	.1000-00	.7680	539.3
146	140.00	.19500	87.000	.6800-02	.5600-02	.6800-02	.1662-03	.1375-03	.1662-03	.1020	.7880	536.4
146	145.00	.80500	259.00	.1200-02	.1000-02	.1200-02	.2910-04	.2410-04	.2910-04	.1800-01	.1350	533.4
147	145.00	.86200	261.00	.3300-02	.2800-02	.3300-02	.8195-04	.6783-04	.8195-04	.5000-01	.4140	534.8
146	150.00	.16000	86.000	.7500-02	.6200-02	.7500-02	.1827-03	.1510-03	.1827-03	.1110	.8270	539.8
146	150.00	.18000	84.000	.1050-01	.8700-02	.1050-01	.2564-03	.2120-03	.2564-03	.1560	1.162	539.3
146	150.00	.19000	82.000	.2000-03	.2000-03	.2000-03	.5920-05	.4899-05	.5920-05	.4000-02	.2700-01	535.9
146	155.00	.16000	80.000	.8300-02	.6900-02	.8300-02	.2037-03	.1684-03	.2037-03	.1240	.9220	539.8
146	155.00	.18000	83.000	.2000-03	.2000-03	.2000-03	.4644-05	.3843-05	.4644-05	.3000-02	2.100-01	535.7
146	155.00	.18000	77.000	.2090-01	.1720-01	.2090-01	.5110-03	.4223-03	.5110-03	.3100	2.473	540.7
146	175.00	.15000	81.000	.2170-01	.1790-01	.2170-01	.5306-03	.4385-03	.5306-03	.3220	2.318	541.0
146	175.00	.16500	79.000	.1920-01	.1590-01	.1920-01	.4704-03	.3888-03	.4704-03	.2860	2.125	540.8
146	175.00	.17500	78.000	.3970-01	.3280-01	.3970-01	.9730-03	.8036-03	.9730-03	.5890	4.237	542.5
145	180.00	.10000-01	59.000	.1812	.1493	.1812	.4436-02	.3653-02	.4436-02	2.634	19.49	551.1
145	180.00	.25000-01	60.000	.5190-01	.4290-01	.5190-01	.1271-02	.1049-02	.1271-02	.7650	5.499	543.1
145	180.00	.50000-01	61.000	.2290-01	.1890-01	.2290-01	.5611-03	.4635-03	.5611-03	.3390	2.162	540.7
145	180.00	.75000-01	62.000	.1210-01	.1000-01	.1210-01	.2966-03	.2450-03	.2966-03	.1790	1.144	540.1
145	180.00	.10000+00	63.000	.9300-02	.7700-02	.9300-02	.2271-03	.1876-03	.2271-03	.1370	.9020	540.2
145	180.00	.12500	64.000	.9800-02	.8100-02	.9800-02	.2410-03	.1991-03	.2410-03	.1460	1.018	539.6
145	180.00	.15000	65.000	.1320-01	.1090-01	.1320-01	.3228-03	.2667-03	.3228-03	.1950	1.364	539.5
145	180.00	.16000	66.000	.4180-01	.3450-01	.4180-01	.1022-02	.8444-02	.1022-02	.6170	3.443	541.2
145	180.00	.17000	67.000	.7180-01	.5930-01	.7180-01	.1758-02	.1451-02	.1758-02	1.056	5.878	544.6
145	180.00	.20000	69.000	.1680-01	.1390-01	.1680-01	.4103-03	.3391-03	.4103-03	.2490	1.542	539.1
145	180.00	.40100	72.000	.5000-02	.4200-02	.5000-02	.1019-03	.1019-03	.1019-03	.7500-01	.6360	538.7
145	180.00	.50000	73.000	.7400-02	.6100-02	.7400-02	.1811-03	.1497-03	.1811-03	.1100	.9340	539.1
145	180.00	.60100	74.000	.7400-02	.6100-02	.7400-02	.1819-03	.1504-03	.1819-03	.1100	.9090	538.8
145	180.00	.70100	75.000	.7500-02	.6200-02	.7500-02	.1845-03	.1525-03	.1845-03	.1120	.8940	538.0

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AEDC VKF V1 B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V4B-57A) ORB TLR FUSELAGE

(RV1803)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPDRK = .0000  
 SDELAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
124	7.970	1.513	30.05	.0000	180.0	321.0	.3400-01	1283.	93.60	1.498	3779.	.3019-04
125	7.970	1.512	30.05	.0000	180.0	321.0	.3400-01	1284.	93.70	1.498	3780.	.3018-04
126	7.970	1.519	30.02	.0000	180.0	321.9	.3400-01	1283.	93.60	1.502	3778.	.3029-04

RUN NUMBER	WJ LB-SEC /FT <sup>2</sup>	DTU/R FT/SEC	ST FP R =
124	.7539-07	.2933-01	0.0175
125	.7542-07	.3000-01	.3313-01
126	.7535-07	.3003-01	.3307-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/R FT <sup>2</sup> SEC	H(10) BTU/R FT <sup>2</sup> SEC	H(TAW) BTU/P FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWDT DEG. R /SEC	TH DEG. R
124	.00000	.00000	1.0000	.7793	.6763	.6590	.2338-01	.1908-01	.2007-01	13.34	72.82	584.3
124	.00000	.50000-02	2.0000	.7449	.6553	.6088	.2234-01	.1815-01	.1826-01	12.43	84.21	598.7
124	.00000	.10000-01	3.0000	.6037	.4926	.5095	.1811-01	.1478-01	.1528-01	10.31	68.17	585.6
124	.00000	.20000-01	4.0000	.3952	.3249	.3492	.1175-01	.9746-02	.1047-01	7.031	38.81	561.9
124	.00000	.30000-01	5.0000	.2920	.2405	.2635	.8709-02	.7214-02	.7905-02	5.246	29.04	556.1
124	.00000	.40000-01	6.0000	.2375	.1958	.2174	.7124-02	.5874-02	.6519-02	4.295	23.82	552.2
124	.00000	.50000-01	7.0000	.2252	.1852	.2079	.6754-02	.5555-02	.6237-02	4.020	26.92	559.8
124	.00000	.60000-01	8.0000	.2244	.1847	.2088	.6729-02	.5541-02	.6261-02	4.026	25.46	556.7
124	.00000	.70000-01	9.0000	.1928	.1587	.1807	.5783-02	.4759-02	.5442-02	3.450	23.84	558.5
124	.00000	.80000-01	10.000	.1571	.1294	.1481	.4711-02	.3681-02	.4442-02	2.828	19.58	554.7
124	.00000	.90000-01	11.000	.1472	.1214	.1394	.4416-02	.3542-02	.4182-02	2.665	16.90	551.5
124	.00000	.10000+00	12.000	.1337	.1102	.1271	.4010-02	.3316-02	.3812-02	2.415	14.48	552.8
124	.00000	.12000	14.000	.7620-01	.6390-01	.7280-01	.2235-02	.1655-02	.2184-02	1.386	7.702	548.5
124	.00000	.13000	15.000	.1140	.9400-01	.1092	.3420-02	.2620-02	.3274-02	2.066	12.07	551.0
124	.00000	.14000	16.000	.1051	.8570-01	.1008	.3153-02	.2601-02	.3023-02	1.906	12.09	550.5
124	.00000	.15000	18.000	.1081	.8920-01	.1039	.3243-02	.2674-02	.3115-02	1.957	12.06	551.6
124	.00000	.17000	19.000	.1085	.9350-01	.1045	.3258-02	.2665-02	.3134-02	1.904	12.45	552.2

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AEDC 'K' V41B-57A 'OH-49B' COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B03)

PUR NUMBER	*METHA	X/L	T/C NO	H/HREF P=0.9	H/HREF P=1.0	H/HREF (TAW)	H(GTO) BTU/R FT2SEC	H(GTO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
124	00000	18000	20.000	.1039	.8990-01	.1049	.3666-02	.2693-02	.3145-02	.68	12.47	552.5
124	00000	19000	21.000	.1032	.8510-01	.9950-01	.3094-02	.2553-02	.2594-02	.872	11.88	550.0
124	00000	20000	22.000	.1001	.8260-01	.9650-01	.3003-02	.2553-02	.2594-02	1.870	11.47	552.3
124	00000	22500	23.000	.9300-01	.7570-01	.9010-01	.2791-02	.2302-02	.2702-02	1.685	10.68	551.4
124	00000	25000	24.000	.8600-01	.7300-01	.8590-01	.2657-02	.2191-02	.2576-02	1.604	10.17	551.5
124	00000	30000	25.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	1.457	9.236	551.9
124	00000	35000	26.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	1.477	9.350	554.6
124	00000	40000	27.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	1.462	9.532	554.6
124	00000	45000	28.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	1.327	8.996	555.0
124	00000	50000	29.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	1.249	8.639	556.8
124	00000	55000	30.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	1.168	8.607	556.9
124	00000	60000	31.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	1.062	7.827	559.5
124	00000	65000	32.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.9780	7.202	561.1
124	00000	70000	33.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.9380	7.142	561.2
124	00000	75000	34.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.8540	7.025	561.1
124	00000	80000	35.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.7540	7.651	560.9
124	00000	85000	36.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	1.000	7.618	559.8
124	00000	90000	37.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.9570	6.834	556.6
124	00000	95000	38.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.7650	6.260	554.9
124	00000	100000	39.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.7100	5.831	554.6
124	00000	105000	40.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.6630	5.440	555.3
124	00000	110000	41.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.4170	3.089	549.1
124	00000	115000	42.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.4580	3.394	546.9
124	00000	120000	43.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.4110	3.265	547.4
124	00000	125000	44.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.3280	2.758	546.9
124	00000	130000	45.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.3010	1.867	539.9
124	00000	135000	46.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.1580	.9560	539.5
124	00000	140000	47.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.1359	11.52	559.6
124	00000	145000	48.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.9140	8.073	561.8
124	00000	150000	49.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	1.051	7.737	562.3
124	00000	155000	50.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	1.024	7.542	560.8
124	00000	160000	51.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.8380	6.624	557.0
124	00000	165000	52.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.3244	21.15	552.8
124	00000	170000	53.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	2.272	14.42	550.3
124	00000	175000	54.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	1.419	10.44	562.5
124	00000	180000	55.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	1.503	11.07	560.1
124	00000	185000	56.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	1.478	10.91	556.7
124	00000	190000	57.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	4.268	23.69	551.0
124	00000	195000	58.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	.2130	1.322	539.4
124	00000	200000	59.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	3.885	24.60	555.2
124	00000	205000	60.000	.8200-01	.6700-01	.7810-01	.2416-02	.1992-02	.2412-02	2.529	22.40	555.3

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

CUM NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAJ)	H(OTO) BTU/ R FT2SEC	H(OTO) BTU/ R FT2SEC	H(OTAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
124	30.000	.92500	970.00	.7620-01	.6270-01	.7620-01	.2286-02	.1882-02	.2286-02	1.368	10.10	556.5
124	30.000	.95000	974.00	.8850-01	.7280-01	.8850-01	.2655-02	.2184-02	.2655-02	1.582	11.66	559.0
124	30.000	.97500	978.00	.4930-01	.4130-01	.4930-01	.1497-02	.1237-02	.1497-02	.9150	6.800	543.5
125	31.500	.20000	108.00	.9360-01	.7720-01	.9360-01	.2608-02	.2315-02	.2608-02	1.692	17.06	552.8
124	32.000	.40000	831.00	.1080	.8890-01	.1047	.3238-02	.2665-02	.3139-02	1.933	13.36	558.1
124	32.000	.50000	832.00	.92.0-01	.7590-01	.8950-01	.2770-02	.2278-02	.2665-02	1.643	11.70	561.9
124	32.000	.60000	833.00	.7710-01	.6340-01	.7480-01	.2314-02	.1902-02	.2242-02	1.370	9.161	563.0
124	32.000	.70000	834.00	.6900-01	.5670-01	.6690-01	.2070-02	.1700-02	.2006-02	1.220	9.274	565.5
124	32.000	.80000	835.00	.5330-01	.4330-01	.5170-01	.1315-02	.1150-02	.1350-02	.9510	6.774	560.6
124	32.000	.90000	836.00	.4610-01	.3800-01	.4530-01	.1334-02	.1139-02	.1359-02	.8280	6.113	556.4
124	32.000	.95000	837.00	.5410-01	.4400-01	.5340-01	.1623-02	.1336-02	.1603-02	.9720	7.427	555.7
124	32.000	.97500	838.00	.5030-01	.4190-01	.5040-01	.1526-02	.1257-02	.1511-02	.9140	7.229	555.9
124	32.000	1.0150	839.00	.3290-01	.2450-01	.2830-01	.8901-03	.7345-03	.8500-03	.5390	4.358	549.1
124	32.000	1.0300	840.00	.3250-01	.2480-01	.3100-01	.9750-03	.8049-03	.9312-03	.5920	4.619	547.8
124	32.000	1.0450	841.00	.3460-01	.2680-01	.3300-01	.1037-02	.8557-03	.9902-03	.6290	4.818	548.7
124	32.000	1.0600	842.00	.3310-01	.2480-01	.2870-01	.9021-03	.7449-03	.8616-03	.5480	4.519	547.0
125	35.000	.50000-01	115.00	.1335	.1144	.1385	.4155-02	.3430-02	.4155-02	2.526	16.05	547.5
125	35.000	.20000	110.00	.1035	.8520-01	.1035	.3105-02	.2557-02	.3105-02	1.861	18.73	556.0
125	39.000	1.0000+00	116.00	.1098	.9070-01	.1098	.3294-02	.2720-02	.3294-02	2.004	12.74	547.0
125	40.000	.15000	121.00	.7850-01	.6500-01	.7860-01	.2359-02	.1950-02	.2359-02	1.443	9.185	543.7
125	40.000	.20000	111.00	.1778	.1464	.1778	.5334-02	.4390-02	.5334-02	3.184	23.48	558.4
125	42.500	.50000-01	127.00	.9990-01	.8230-01	.9990-01	.2997-02	.2467-02	.2997-02	1.792	19.82	557.6
125	45.000	.15000	117.00	.9010-01	.7450-01	.9010-01	.2983-02	.2464-02	.2983-02	1.818	12.26	546.0
124	45.000	.92500	969.00	.1400-01	.1160-01	.1400-01	.2703-02	.2233-02	.2703-02	1.649	9.661	545.4
124	45.000	.95000	973.00	.7000-03	.6000-03	.7000-03	.4196-03	.3472-03	.4196-03	.2580	1.919	540.4
124	45.000	.97500	978.00	.1000-02	.8000-03	.1000-02	.2220-04	.1838-04	.2220-04	.1400-01	.1020	538.1
125	51.000	.20000	118.00	.4770-01	.3940-01	.4770-01	.2890-04	.2393-04	.2890-04	.1800-01	.1330	537.8
125	60.000	.50000-01	131.00	.3720-01	.3080-01	.3720-01	.1430-02	.1182-02	.1430-02	.8760	5.580	542.7
124	67.500	.20000	129.00	.2910-01	.2410-01	.2910-01	.1116-02	.9237-03	.1116-02	.6880	4.853	539.4
124	75.000	.97500	977.00	.4000-03	.3000-03	.4000-03	.2727-04	.2258-04	.2727-04	3.987	3.987	541.6
124	85.000	.97500	976.00	.9000-03	.8000-03	.9000-03	.1103-04	.9132-05	.1103-04	.7000-02	.5100-01	537.8
125	105.00	.40100	135.00	.2250-01	.1860-01	.2250-01	.6757-03	.5585-03	.6757-03	.7000-01	.1250	537.8
125	105.00	.50100	136.00	.3040-01	.2510-01	.3040-01	.9118-03	.7533-03	.9118-03	.5570	3.193	543.1
125	105.00	.60100	137.00	.1670-01	.1390-01	.1670-01	.5006-03	.4137-03	.5006-03	.3060	2.437	543.6
125	105.00	.70100	138.00	.4000-02	.3000-02	.4000-02	.2096-03	.1733-03	.2096-03	.1290	1.025	541.5
125	105.00	.80100	139.00	.2890-01	.2390-03	.2890-01	.1341-04	.1110-04	.1341-04	.8000-02	.6600-01	538.4
125	113.00	.60100	146.00	.2890-01	.2390-03	.2890-01	.8679-03	.7172-03	.8679-03	.5300	4.217	544.5
125	116.00	.69100	147.00	.2030-01	.2030-01	.2450-01	.7353-03	.6076-03	.7353-03	.4490	3.570	544.9
125	116.00	.75100	148.00	.9200-02	.7600-02	.9200-02	.2751-03	.2275-03	.2751-03	.1690	1.345	541.6
125	120.00	.10000+00	132.00	.1000-01	.8300-02	.1000-01	.3002-03	.2485-03	.3002-03	.1850	1.119	538.3
125	120.00	.80500	247.00	.9400-02	.7800-02	.9400-02	.2834-03	.2345-03	.2834-03	.1750	1.437	539.5
125	120.00	.82300	248.00	.1100-01	.9100-02	.1100-01	.3297-03	.2728-03	.3297-03	.2030	1.672	539.5

(RV1803)

AEDC VLF V418-57A (OH-498) COLLATION DECK

OH-498 (AEDC V418-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
125	120.00	.86200	249.00	.1100-01	.9100-02	.1100-01	.3301-03	.2733-03	.3301-03	.2040	1.488	537.9
125	130.00	.80500	253.00	.1210-01	.1000-01	.1210-01	.3640-03	.3012-03	.3640-03	.2240	1.788	539.5
125	130.00	.82900	254.00	.2590-01	.2140-01	.2590-01	.7769-03	.6425-03	.7769-03	.4770	3.683	541.7
125	130.00	.86200	255.00	.2030-01	.1680-01	.2030-01	.6087-03	.5037-03	.6087-03	.3750	3.088	539.4
125	135.00	.40100	142.00	.1500-02	.1200-02	.1500-02	.4420-04	.3658-04	.4420-04	.2700-01	.2110	539.0
125	135.00	.50100	143.00	.2200-02	.1800-02	.2200-02	.6500-04	.5462-04	.6500-04	.4100-01	.3350	539.6
125	135.00	.60100	144.00	.2600-02	.2200-02	.2600-02	.8377-04	.6933-04	.8377-04	.4800-01	.3750	540.2
125	135.00	.70100	145.00	.2600-02	.2300-02	.2600-02	.8377-04	.6933-04	.8377-04	.5200-01	.4120	539.3
125	140.00	.18300	85.000	.9900-02	.8100-02	.9900-02	.2945-03	.2439-03	.2945-03	.1820	1.403	539.2
125	140.00	.19500	87.000	.6100-02	.6700-02	.6100-02	.2432-03	.2012-03	.2432-03	.1500	1.154	539.2
125	145.00	.80500	259.00	.9100-02	.7500-02	.9100-02	.2723-03	.2254-03	.2723-03	.1302	1.302	537.9
126	145.00	.82900	260.00	.7000-02	.5800-02	.7000-02	.2096-03	.1734-03	.2096-03	.1290	.9690	538.9
126	145.00	.86200	261.00	.4500-02	.3800-02	.4500-02	.1354-03	.1130-03	.1354-03	.6970	.6970	535.6
125	150.00	.16000	86.000	.7200-02	.5900-02	.7200-02	.2155-03	.1784-03	.2155-03	.1330	.9880	539.3
125	150.00	.18000	84.000	.1060-01	.8600-02	.1060-01	.3174-03	.2627-03	.3174-03	.1960	1.455	539.3
125	150.00	.19000	82.000	.1000-03	.1000-03	.1000-03	.2021-05	.1674-05	.2021-05	.9000-02	.9000-02	536.3
125	155.00	.16000	80.000	.8700-02	.7200-02	.8700-02	.2625-03	.2172-03	.2625-03	.1620	1.203	539.4
125	160.00	.18000	77.000	.2030-01	.1680-01	.2030-01	.6091-03	.5037-03	.6091-03	.3730	2.974	542.4
125	175.00	.15000	81.000	.2630-01	.2310-01	.2630-01	.8397-03	.6944-03	.8397-03	.5150	3.704	542.2
125	175.00	.16500	79.000	.1960-01	.1620-01	.1960-01	.5875-03	.4860-03	.5875-03	.3610	2.683	541.3
125	175.00	.17500	78.000	.4520-01	.3740-01	.4520-01	.1357-02	.1122-02	.1357-02	.8300	5.964	543.9
124	180.00	.10000-01	59.000	.1815	.1495	.1815	.5443-02	.4487-02	.5443-02	3.281	2.427	552.1
124	180.00	.25000-01	60.000	.5080-01	.4200-01	.5080-01	.1524-02	.1260-02	.1524-02	.9340	6.715	542.5
124	180.00	.50000-01	61.000	.2210-01	.1830-01	.2210-01	.6540-03	.5494-03	.6540-03	.4080	2.605	539.8
124	180.00	.75000-01	62.000	.1170-01	.9700-02	.1170-01	.3523-03	.2915-03	.3523-03	.2170	1.383	539.9
124	180.00	.10000+00	62.000	.9000-02	.7400-02	.9000-02	.2689-03	.2225-03	.2689-03	.1650	1.086	539.9
124	180.00	.12500	64.000	.1020-01	.8500-02	.1020-01	.3074-03	.2543-03	.3074-03	.1890	1.318	540.3
124	180.00	.15000	65.000	.1630-01	.1350-01	.1630-01	.4877-03	.4035-03	.4877-03	.3000	2.091	540.3
124	180.00	.16000	66.000	.5570-01	.4610-01	.5570-01	.1672-02	.1382-02	.1672-02	1.022	5.690	544.1
124	180.00	.17000	67.000	.8060-01	.6660-01	.8060-01	.2418-02	.1997-02	.2418-02	1.470	8.175	540.4
124	180.00	.20000	69.000	.1000-01	.8300-02	.1000-01	.3004-03	.2485-03	.3004-03	.1850	1.145	540.4
124	180.00	.40100	72.000	.7500-02	.6200-02	.7500-02	.2237-03	.1851-03	.2237-03	.1380	1.171	539.9
124	180.00	.50000	73.000	.3000-02	.7400-02	.3000-02	.2691-03	.2226-03	.2691-03	.1650	1.407	540.1
124	180.00	.60100	74.000	.6800-02	.5600-02	.6800-02	.2047-03	.1694-03	.2047-03	.1260	1.036	539.9
124	180.00	.70100	75.000	.7300-02	.6000-02	.7300-02	.2190-03	.1813-03	.2190-03	.1350	1.077	539.0

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

PARAMETRIC DATA

ALPHA = 30.00

BETA = .0000

ELEVTR = .0000

SPDRBK = .0000

BOFLAP = .0000

MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 <sup>6</sup>	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
91	7.980	2.015	30.07	.0000	180.0	431.5	4500-01	1289.	93.60	2.002	3787.	.4017-04
92	7.980	2.025	30.07	.0000	180.0	432.5	4500-01	1286.	93.60	2.007	3784.	.4034-04
93	7.980	2.026	30.07	.0000	180.0	432.5	4500-01	1285.	93.60	2.006	3782.	.4035-04

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
91	.00000	.00000	1.0000	.7711	.6279	.6607	.2676-01	.2179-01	.2292-01	15.12	82.12	594.6
91	.00000	.50000-02	2.0000	.7506	.6079	.6114	.2604-01	.2109-01	.2122-01	14.29	96.24	611.0
91	.00000	.10000-01	3.0000	.5899	.4801	.4967	.2047-01	.1666-01	.1724-01	11.53	75.86	596.2
91	.00000	.20000-01	4.0000	.3939	.3234	.3476	.1367-01	.1122-01	.1206-01	8.075	44.41	569.9
91	.00000	.30000-01	5.0000	.2893	.2380	.2605	.1004-01	.6257-02	.9053-02	6.000	33.12	562.0
91	.00000	.40000-01	6.0000	.2351	.1937	.2151	.8159-02	.6722-02	.7463-02	4.917	27.21	557.1
91	.00000	.50000-01	7.0000	.2226	.1829	.2055	.7725-02	.6348-02	.7153-02	4.589	30.64	565.7
91	.00000	.60000-01	8.0000	.2244	.1846	.2087	.7786-02	.6406-02	.7242-02	4.656	29.38	561.7
91	.00000	.70000-01	9.0000	.1906	.1567	.1785	.6613-02	.5438-02	.6195-02	3.944	27.20	563.2
91	.00000	.80000-01	10.000	.1576	.1297	.1485	.5467-02	.4502-02	.5154-02	3.286	22.71	558.7
91	.00000	.90000-01	11.000	.1445	.1191	.1368	.5014-02	.4133-02	.4747-02	3.034	19.21	554.5
91	.00000	.10000+00	12.000	.1336	.1102	.1270	.4637-02	.3824-02	.4408-02	2.809	16.83	553.9
91	.00000	.12000	14.000	.9330-01	.7703-01	.8910-01	.3236-02	.2670-02	.3093-02	1.967	10.91	551.8
91	.00000	.13000	15.000	.1113	.9180-01	.1066	.3862-02	.3186-02	.3698-02	2.345	13.69	552.5
91	.00000	.14000	16.000	.1058	.8730-01	.1015	.3673-02	.3030-02	.3521-02	2.232	14.15	551.9
91	.00000	.16000	18.000	.1069	.8220-01	.1027	.3709-02	.3060-02	.3564-02	2.251	13.87	552.8
91	.00000	.17000	19.000	.1067	.8200-01	.1026	.3702-02	.3053-02	.3561-02	2.245	14.22	553.3





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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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(RV1803)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.3	H/HREF (TAX)	H(OTO) BTU/R FT/SEC	H(TO) BTU/R FT/SEC	H(TAX) BTU/R FT/SEC	QDOT BTU/ FT/SEC	DTROT DEG. R /SEC	TW DEG. R
51	30.000	92500	970.00	.8760-01	.7240-01	.8760-01	.3041-02	.2511-02	.3041-02	1.857	13.76	548.9
91	30.000	95000	974.00	.1056	.8710-01	.1056	.3665-02	.3024-02	.3665-02	2.225	16.45	552.7
91	30.000	97500	979.00	.5990-01	.4970-01	.5990-01	.2075-02	.1724-02	.2075-02	1.305	9.750	531.8
92	31.500	20000	108.00	.9420-01	.7770-01	.9420-01	.3270-02	.2700-02	.3270-02	1.991	20.11	548.9
91	32.000	40000	831.00	.1079	.8900-01	.1047	.3745-02	.3087-02	.3631-02	2.263	15.66	555.7
91	32.000	50000	832.00	.6780-01	.7270-01	.8520-01	.7049-02	.2509-02	.2955-02	1.829	13.04	559.7
91	32.000	60000	833.00	.7530-01	.6200-01	.7320-01	.2615-02	.2152-02	.2534-02	1.566	10.49	560.7
91	32.000	70000	834.00	.5940-01	.4630-01	.5730-01	.2082-02	.1695-02	.1999-02	1.229	9.352	563.6
91	32.000	80000	835.00	.5540-01	.4580-01	.5370-01	.1922-02	.1584-02	.1864-02	1.162	8.287	556.1
91	32.000	90000	836.00	.5430-01	.4570-01	.5350-01	.1903-02	.1572-02	.1871-02	1.162	8.604	549.4
91	32.000	95000	837.00	.6410-01	.5330-01	.6330-01	.2225-02	.1839-02	.2198-02	1.363	10.46	546.9
91	32.000	97500	838.00	.6330-01	.5280-01	.6330-01	.2207-02	.1824-02	.2185-02	1.354	10.76	546.1
91	32.000	1.0150	839.00	.3320-01	.3250-01	.3750-01	.1350-02	.1127-02	.1300-02	.8470	6.885	537.1
91	32.000	1.0300	840.00	.4090-01	.3390-01	.4240-01	.1419-02	.1176-02	.1356-02	.8860	6.957	535.2
91	32.000	1.0450	841.00	.4440-01	.3680-01	.4440-01	.1540-02	.1276-02	.1472-02	.9600	7.404	536.2
91	32.000	1.0600	842.00	.3580-01	.2970-01	.3420-01	.1242-02	.1030-02	.1187-02	.7770	6.442	534.1
91	32.000	1.0750	843.00	.1339	.1157	.1339	.4635-02	.4019-02	.4856-02	3.002	19.15	539.5
92	35.000	20000	115.00	.1223	.8430-01	.1029	.3515-02	.2949-02	.3575-02	2.164	21.83	552.2
92	35.000	1.0000+00	116.00	.1075	.8910-01	.1075	.3733-02	.3033-02	.3733-02	2.308	14.72	540.2
92	40.000	15000	121.00	.8030-01	.6520-01	.8030-01	.2719-02	.2303-02	.2778-02	1.732	11.08	534.1
92	40.000	20000	112.00	.9630-01	.8150-01	.9630-01	.3435-02	.2833-02	.3435-02	2.074	22.98	554.2
92	42.500	15000	127.00	.1033	.8520-01	.1033	.3525-02	.2970-02	.3525-02	2.225	15.07	537.4
91	45.000	52500	969.00	.1750-01	.1460-01	.1750-01	.6082-03	.5051-03	.6082-03	.3840	2.873	528.5
91	45.000	95000	973.00	.9000-03	.8000-03	.9000-03	.3197-04	.2657-04	.3197-04	.2000-01	.1520	526.4
92	51.000	20000	113.00	.4770-01	.3950-01	.4770-01	.1655-02	.1372-02	.1655-02	1.030	6.582	535.6
92	63.000	50000-01	121.00	.3750-01	.3120-01	.3750-01	.1306-02	.1084-02	.1306-02	.8210	5.583	529.1
92	67.500	20000	128.00	.2360-01	.2460-01	.2360-01	.1029-02	.8533-03	.1029-02	.6420	4.795	533.7
91	75.000	97500	977.00	.2000-03	.2000-03	.2000-03	.7645-05	.6354-05	.7645-05	.5000-02	.3600-01	525.7
91	85.000	97500	976.00	.8000-03	.7000-03	.8000-03	.2765-04	.2298-04	.2765-04	.1800-01	.1310	526.2
92	105.00	40100	135.00	.2030-01	.1740-01	.2030-01	.7264-03	.6029-03	.7264-03	.4560	3.548	530.0
92	105.00	50100	135.00	.2530-01	.2440-01	.2530-01	.1023-02	.8465-03	.1023-02	.6400	5.123	532.7
92	105.00	60100	137.00	.2030-01	.1690-01	.2030-01	.7082-03	.5873-03	.7082-03	.4430	3.546	530.4
92	105.00	70100	138.00	.7730-02	.6400-02	.7730-02	.2679-03	.2223-03	.2679-03	.1680	1.348	527.5
92	105.00	80100	139.00	.1100-02	.9000-03	.1100-02	.3773-04	.3134-04	.3773-04	.2400-01	.1910	533.7
92	113.00	60100	146.00	.3530-01	.2970-01	.3530-01	.1244-02	.1031-02	.1244-02	.7760	6.214	533.7
92	115.00	60100	147.00	.3080-01	.2530-01	.3080-01	.1069-02	.8652-03	.1069-02	.6670	5.342	533.4
92	116.00	75100	149.00	.9400-02	.7800-02	.9400-02	.3271-03	.2714-03	.3271-03	.2050	1.647	530.0
92	120.00	10000+00	132.00	.1030-01	.8600-02	.1030-01	.3586-03	.2979-03	.3586-03	.2260	1.374	526.9
92	120.00	80500	247.00	.1400-01	.1170-01	.1400-01	.4877-03	.4050-03	.4877-03	.3070	2.549	527.5
92	120.00	82500	248.00	.1630-01	.1630-01	.1630-01	.6817-03	.5660-03	.6817-03	.4290	3.557	528.3

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AEDC VKF V41B-57A (OH-498) COLLATION DICK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1803)

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
92	120.00	.86200	249.00	.1480-01	.1230-01	.1480-0	.5125-03	.4257-03	.5125-03	.3230	2.375	527.0
92	130.00	.80500	253.00	.1830-01	.1520-01	.1830-0	.6347-03	.5271-03	.6347-03	.4000	3.214	527.5
92	130.00	.82900	254.00	.4840-01	.4020-01	.4840-0	.1681-02	.1394-02	.1681-02	1.051	8.168	532.4
92	130.00	.86200	255.00	.2870-01	.2350-01	.2870-0	.9957-03	.8265-03	.9957-03	.6260	5.183	525.4
92	135.00	.40100	142.00	.1400-02	.1200-02	.1400-02	.4992-04	.4148-04	.4992-04	.3200-01	.2460	525.5
92	135.00	.50100	143.00	.2400-02	.2000-02	.2400-02	.8242-04	.6848-04	.8242-04	.5200-01	.4320	526.0
92	135.00	.60100	144.00	.3100-02	.2600-02	.3100-02	.1079-03	.8953-04	.1079-03	.6800-01	.5310	526.4
92	135.00	.70100	145.00	.3200-02	.2800-02	.3200-02	.1159-03	.9628-04	.1159-03	.7300-01	.5880	526.6
92	140.00	.18000	85.000	.9200-02	.7600-02	.9200-02	.3185-03	.2643-03	.3185-03	.2000	1.549	529.3
92	140.00	.19500	87.000	.8600-02	.7200-02	.8600-02	.2996-03	.2468-03	.2996-03	1.462	1.462	527.8
92	145.00	.80500	259.00	.1250-01	.1040-01	.1250-0	.4354-03	.3618-03	.4354-03	2.148	2.148	525.3
93	145.00	.82900	260.00	.1050-01	.8700-02	.1050-0	.3641-03	.3028-03	.3641-03	1.756	1.756	521.2
93	145.00	.86200	261.00	.5700-02	.4700-02	.5700-02	.1976-03	.1643-03	.1976-03	1.041	1.041	523.1
93	150.00	.16000	86.000	.7300-02	.6000-02	.7300-02	.2529-03	.2101-03	.2529-03	1.195	1.195	527.2
92	150.00	.18000	84.000	.1050-01	.9100-02	.1050-01	.3787-03	.3145-03	.3787-03	1.787	1.787	527.4
92	150.00	.19000	82.000	.2000-03	.2000-03	.2000-03	.6381-05	.5294-05	.6381-05	.3000-02	.3000-02	531.0
92	155.00	.16000	80.000	.9800-02	.8100-02	.9800-02	.3393-03	.2218-03	.3393-03	1.601	1.601	527.4
92	155.00	.18000	83.000	.4000-03	.4000-03	.4000-03	.1489-04	.1235-04	.1489-04	.7000-01	.7000-01	530.8
92	160.00	.18000	77.000	.2500-01	.2140-01	.2500-01	.8957-03	.7434-03	.8957-03	4.506	4.506	529.9
92	175.00	.15000	81.000	.3350-01	.2780-01	.3350-01	.1164-02	.9659-03	.1164-02	5.277	5.277	531.0
92	175.00	.16500	79.000	.2150-01	.1820-01	.2150-01	.7613-03	.6319-03	.7613-03	3.579	3.579	529.4
92	175.00	.17500	78.000	.5270-01	.4370-01	.5270-01	.1830-02	.1518-02	.1830-02	1.144	1.144	532.4
91	180.00	.10000-01	59.000	.1750	.1450	.1750	.6108-02	.5032-02	.6108-02	3.681	3.681	557.1
91	180.00	.25000-01	60.000	.5000-01	.4140-01	.5000-01	.1737-02	.1435-02	.1737-02	1.067	1.067	545.1
91	180.00	.50000-01	61.000	.2150-01	.1780-01	.2150-01	.7462-03	.6177-03	.7462-03	2.949	2.949	540.2
91	180.00	.75000-01	62.000	.1140-01	.9400-02	.1140-01	.3942-03	.3265-03	.3942-03	2.450	2.450	537.7
91	180.00	.10000-00	63.000	.9300-02	.8200-02	.9300-02	.3435-03	.2847-03	.3435-03	2.140	2.140	536.3
91	180.00	.12500	64.000	.1090-01	.9000-02	.1090-01	.3785-03	.3137-03	.3785-03	2.360	2.360	535.5
91	180.00	.15000	65.000	.1650-01	.1540-01	.1650-01	.6441-03	.5340-03	.6441-03	4.030	4.030	534.6
91	180.00	.16000	65.000	.5200-01	.5170-01	.5200-01	.2169-02	.1795-02	.2169-02	1.344	1.344	539.8
91	180.00	.17000	67.000	.9500-01	.7070-01	.9500-01	.2952-02	.2452-02	.2952-02	1.836	1.836	539.9
91	180.00	.20000	69.000	.1610-01	.1340-01	.1610-01	.5601-03	.4646-03	.5601-03	3.520	3.520	531.6
91	180.00	.40100	72.000	.9200-02	.7600-02	.9200-02	.3183-03	.2642-03	.3183-03	2.000	2.000	530.3
91	180.00	.50000	73.000	.8500-02	.7100-02	.8500-02	.2967-03	.2463-03	.2967-03	1.870	1.870	529.6
91	180.00	.60100	74.000	.6100-02	.5100-02	.6100-02	.2123-03	.1763-03	.2123-03	1.109	1.109	529.1
91	180.00	.70100	75.000	.6600-02	.5500-02	.6600-02	.2291-03	.1903-03	.2291-03	1.161	1.161	528.6

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1803)

PARAMETRIC DATA

ALPHA = 30.03 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
73	7.990	2.496	30.07	.0000	180.0	544.6	.5500-01	1305.	94.80	2.513	3812.	.4977-04
74	7.990	2.513	30.07	.0000	180.0	547.2	.5700-01	1300.	94.40	2.525	3804.	.5021-04
75	7.990	2.521	30.09	.0000	180.0	546.9	.5600-01	1297.	94.20	2.524	3800.	.5031-04

RUN NUMBER	WU LB-SEC /FT2	WREF FT/SEC R =	ST FP R =
73	.7632-07	.3895-01	0.0175
74	.7601-07	.3902-01	.2572-01
75	.7583-07	.3900-01	.2569-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19T01 BTU/ R FT2SEC	H1T01 BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
73	.00000	.00000	1.0000	.7651	.6225	.6551	.2391-01	.2425-01	.2552-01	16.99	91.79	604.8
73	.00000	.50000-02	2.0000	.7412	.5932	.6028	.2391-01	.2425-01	.2552-01	15.91	106.5	623.7
73	.00000	.10000-01	3.0000	.6004	.4882	.5052	.2391-01	.2425-01	.2552-01	13.28	86.89	606.9
73	.00000	.20000-01	4.0000	.3929	.3277	.3168	.1531-01	.1257-01	.1351-01	9.182	50.36	574.8
73	.00000	.30000-01	5.0000	.2889	.2379	.2597	.1255-01	.0268-02	.1016-01	6.845	37.69	565.6
73	.00000	.40000-01	6.0000	.2392	.1972	.2189	.9319-02	.7684-02	.8528-02	5.718	31.57	551.1
73	.00000	.50000-01	7.0000	.2275	.1871	.2100	.6333-02	.7269-02	.8182-02	5.350	35.63	571.0
73	.00000	.60000-01	8.0000	.2235	.1840	.2079	.6105-02	.7157-02	.8100-02	5.294	33.32	565.6
73	.00000	.70000-01	9.0000	.1935	.1593	.1815	.7344-02	.6207-02	.7070-02	4.571	31.43	568.7
73	.00000	.80000-01	10.0000	.1540	.1269	.1452	.5339-02	.4943-02	.5657-02	3.657	25.28	563.5
73	.00000	.90000-01	11.0000	.1429	.1179	.1353	.5555-02	.4593-02	.5271-02	3.427	21.65	559.1
73	.00000	.00000-00	12.0000	.1341	.1107	.1275	.5824-02	.4311-02	.4957-02	3.220	19.25	558.4
73	.00000	.10000	13.0000	.1191	.9540-01	.1139	.4541-02	.3433-02	.4437-02	2.875	15.92	555.3
73	.00000	.20000	14.0000	.1124	.8970-01	.1076	.4378-02	.3513-02	.4192-02	2.700	15.72	557.8
73	.00000	.30000	15.0000	.1034	.8540-01	.9920-01	.4029-02	.3327-02	.3854-02	2.489	15.74	556.9
73	.00000	.40000	16.0000	.1065	.8190-01	.1023	.4147-02	.3423-02	.3955-02	2.556	15.71	558.3
73	.00000	.50000	17.0000	.1055	.8700-01	.1015	.4128-02	.3390-02	.3953-02	2.529	15.98	559.1

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF P=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISTO) BTU/ R FT2SEC	H(ITO) BTU/ R FT2SEC	H(ITAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTAOT DEG. R /SEC	TW DEG. R
73	.00000	.18000	20.000	.1071	.6930-01	.1031	.4172-02	.3441-02	.4017-02	2.567	16.21	559.4
73	.00000	.19000	21.000	.1035	.6550-01	.9980-01	.4033-02	.3229-02	.3639-02	2.491	15.75	557.0
73	.00000	.20000	22.000	.1020	.6420-01	.9850-01	.3974-02	.3280-02	.3937-02	2.449	15.48	558.4
73	.00000	.22500	23.000	.9330-01	.7740-01	.9080-01	.3554-02	.3017-02	.3538-02	2.259	14.29	556.4
73	.00000	.25000	301.00	.8330-01	.7390-01	.8690-01	.3487-02	.2879-02	.3382-02	2.156	13.64	556.4
73	.00000	.30000	802.00	.7230-01	.6570-01	.7710-01	.3093-02	.2558-02	.3205-02	1.915	12.11	556.5
73	.00000	.35000	603.00	.6130-01	.6710-01	.7680-01	.3157-02	.2612-02	.3071-02	1.947	12.30	559.8
73	.00000	.40000	604.00	.5130-01	.6730-01	.7910-01	.3177-02	.2620-02	.3091-02	1.952	12.68	560.4
73	.00000	.45000	605.00	.4130-01	.6330-01	.7430-01	.2935-02	.2462-02	.2936-02	1.831	12.25	561.6
73	.00000	.50000	606.00	.3130-01	.5930-01	.6930-01	.2687-02	.2215-02	.2606-02	1.645	11.34	562.7
73	.00000	.55000	607.00	.2130-01	.5530-01	.6430-01	.2406-02	.1991-02	.2332-02	1.571	11.55	565.3
73	.00000	.60000	809.00	.1130-01	.5130-01	.5930-01	.2579-02	.2124-02	.2500-02	1.466	10.77	565.4
73	.00000	.70000	810.00	.0130-01	.4730-01	.5530-01	.2214-02	.1822-02	.2146-02	1.345	9.870	567.2
73	.00000	.811.00	811.00	.0130-01	.4330-01	.5130-01	.2281-02	.1877-02	.2211-02	1.234	10.50	567.9
73	.00000	.912.00	812.00	.0130-01	.3930-01	.4730-01	.2599-02	.2138-02	.2518-02	1.174	11.56	567.4
73	.00000	.013.00	813.00	.0130-01	.3530-01	.4330-01	.3091-02	.2544-02	.2925-02	1.877	13.78	567.4
73	.00000	.114.00	814.00	.0130-01	.3130-01	.3930-01	.3077-02	.2534-02	.3017-02	1.872	14.22	566.5
73	.00000	.215.00	815.00	.0130-01	.2730-01	.3530-01	.3083-02	.2542-02	.3029-02	1.669	13.46	561.6
73	.00000	.316.00	816.00	.0130-01	.2330-01	.3130-01	.2676-02	.2209-02	.2657-02	1.650	13.52	558.3
73	.00000	.417.00	817.00	.0130-01	.1930-01	.2730-01	.2676-02	.2209-02	.2657-02	1.650	13.52	558.0
73	.00000	.518.00	818.00	.0130-01	.1530-01	.2330-01	.2842-02	.2345-02	.2815-02	1.749	14.33	559.2
73	.00000	.619.00	819.00	.0130-01	.1130-01	.1930-01	.2033-02	.1685-02	.2020-02	1.283	9.532	543.6
73	.00000	.720.00	820.00	.0130-01	.0730-01	.1530-01	.2033-02	.1685-02	.2020-02	1.287	9.565	541.8
73	.00000	.821.00	821.00	.0130-01	.0330-01	.1130-01	.1945-02	.1612-02	.1932-02	1.228	9.776	543.1
73	.00000	.922.00	822.00	.0130-01	.0330-01	.1130-01	.1757-02	.1456-02	.1745-02	1.110	9.340	542.8
73	.00000	.023.00	823.00	.0130-01	.0330-01	.1130-01	.3008-03	.2495-03	.3008-03	1.191	1.155	538.7
73	.00000	.124.00	824.00	.0130-01	.0330-01	.1130-01	.7793-03	.6468-03	.7793-03	1.497	3.084	537.3
73	.00000	.225.00	825.00	.0130-01	.0330-01	.1130-01	.1609-03	.1336-03	.1609-03	1.030	.6190	537.7
73	.00000	.326.00	826.00	.0130-01	.0330-01	.1130-01	.3173-02	.2613-02	.3076-02	1.932	15.20	565.9
73	.00000	.427.00	827.00	.0130-01	.0330-01	.1130-01	.2569-02	.2443-02	.2878-02	1.700	14.15	568.3
73	.00000	.528.00	828.00	.0130-01	.0330-01	.1130-01	.2051-02	.1697-02	.1998-02	1.251	11.02	567.6
73	.00000	.629.00	829.00	.0130-01	.0330-01	.1130-01	.2452-02	.2017-02	.2377-02	1.495	10.88	569.3
73	.00000	.730.00	830.00	.0130-01	.0330-01	.1130-01	.2753-02	.2271-02	.2674-02	1.679	12.33	566.2
73	.00000	.831.00	831.00	.0130-01	.0330-01	.1130-01	.2603-02	.2147-02	.2553-02	1.538	12.61	560.6
73	.00000	.932.00	832.00	.0130-01	.0330-01	.1130-01	.7896-02	.6520-02	.7896-02	1.861	28.35	554.2
74	.00000	.033.00	103.00	.0130-01	.0330-01	.1130-01	.4801-02	.3569-02	.4801-02	2.977	18.89	549.9
74	.00000	.134.00	104.00	.0130-01	.0330-01	.1130-01	.3949-02	.3253-02	.3949-02	2.409	17.71	564.5
73	.00000	.235.00	971.00	.0130-01	.0330-01	.1130-01	.4309-02	.3553-02	.4309-02	2.641	19.43	561.9
73	.00000	.336.00	972.00	.0130-01	.0330-01	.1130-01	.4058-02	.3352-02	.4058-02	2.514	18.57	555.1
73	.00000	.437.00	973.00	.0130-01	.0330-01	.1130-01	.9100-02	.7522-02	.9100-02	5.639	31.31	550.3
73	.00000	.538.00	105.00	.0130-01	.0330-01	.1130-01	.4835-03	.4015-03	.4835-03	3.030	1.917	536.5
74	.00000	.639.00	106.00	.0130-01	.0330-01	.1130-01	.8510-02	.7020-02	.8510-02	5.213	32.96	557.3
74	.00000	.740.00	107.00	.0130-01	.0330-01	.1130-01	.5442-02	.4487-02	.5442-02	3.326	29.42	558.7



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OH-498 (AEDC V41B-57A) OPB TER FUSELAGE

PUN NUMBER	WETA	Y/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISTO) BTU/R FT2SEC	H(OTO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
74	130.00	86200	249.00	1890-01	1570-01	1890-01	7371-03	6121-03	7371-03	4690	3.435	533.3
74	130.00	86500	253.00	2530-01	2100-01	2530-01	9855-03	8181-03	9855-03	6260	5.010	534.5
74	130.00	82900	254.00	6120-01	5680-01	6120-01	2390-02	1981-02	2390-02	1507	11.66	539.1
74	130.00	86200	255.00	3330-01	2680-01	3230-01	1261-02	1046-02	1261-02	8000	6.601	535.6
74	130.00	86200	142.00	3300-03	2000-03	3300-03	1065-04	8658-05	1066-04	7000-02	5300-01	529.8
74	130.00	86200	143.00	1600-02	1300-02	1600-02	6181-04	5137-04	6181-04	4000-01	3270	530.4
74	130.00	86200	144.00	2500-02	2100-02	2500-02	9925-04	8163-04	9925-04	6300-01	4880	531.5
74	130.00	86200	145.00	3700-02	3100-02	3700-02	1452-03	1206-03	1452-03	9300-01	7430	531.4
74	130.00	86200	67.00	9100-02	7500-02	9100-02	3544-03	2944-03	3544-03	2260	1.745	532.5
74	130.00	86200	259.00	1610-01	1340-01	1610-01	6297-03	5231-03	6297-03	4020	3.122	531.9
74	130.00	86200	260.00	2500-01	2140-01	2500-01	1005-02	8356-03	1005-02	6400	4.835	530.4
74	130.00	86200	261.00	5500-02	4500-02	5400-02	2125-03	1766-03	2125-03	1360	1.123	529.0
74	130.00	86200	64.00	5500-02	5500-02	6700-02	2612-03	2170-03	2612-03	1670	1.246	531.6
74	130.00	86200	64.00	5500-02	5500-02	6700-02	4059-03	3372-03	4059-03	2590	1.934	532.1
74	130.00	86200	82.00	3300-03	3300-03	3300-03	1273-04	1057-04	1273-04	8000-02	6100-01	532.6
74	130.00	86200	80.00	1500-01	9000-02	1030-01	4233-03	3520-03	4233-03	2700	2.019	532.1
74	130.00	86200	83.00	4000-03	3000-03	4000-03	1605-04	1250-04	1605-04	1000-01	7200-01	532.6
74	130.00	86200	77.00	2760-01	2290-01	2760-01	1078-02	8942-02	1078-02	6830	5.451	536.6
74	130.00	86200	81.00	3740-01	3110-01	3740-01	1461-02	1212-02	1461-02	9260	6.678	536.4
74	130.00	86200	79.00	2100-01	1740-01	2100-01	8198-03	6607-03	8198-03	5210	3.891	534.0
74	130.00	86200	79.00	5970-01	4950-01	5970-01	2323-02	1931-02	2323-02	4169	10.59	539.9
73	130.00	86200	59.00	1741	1435	1741	6765-02	5594-02	6765-02	30.63	30.63	561.4
73	130.00	86200	59.00	4900-01	4060-01	4900-01	1909-02	1581-02	1909-02	8.607	8.607	546.5
73	130.00	86200	61.00	2140-01	1780-01	2140-01	8353-03	6921-03	8353-03	3.362	3.362	542.5
73	130.00	86200	62.00	1110-01	920-02	1110-01	4311-03	3575-03	4311-03	2730	1.743	540.6
73	130.00	86200	63.00	9700-02	8000-02	9700-02	3771-03	3128-03	3771-03	2390	1.573	539.5
73	130.00	86200	64.00	1190-01	9600-02	1190-01	4591-03	3809-03	4591-03	2920	2.037	539.1
73	130.00	86200	65.00	2030-01	1730-01	2030-01	8147-03	6758-03	8147-03	5170	3.609	539.8
73	130.00	86200	65.00	6440-01	5340-01	6440-01	2510-02	2079-02	2510-02	1580	8.797	545.2
73	130.00	86200	67.00	9320-01	7710-01	9320-01	3630-02	3006-02	3630-02	2.280	12.68	545.5
73	130.00	86200	69.00	1560-01	1300-01	1560-01	6094-03	5060-03	6094-03	3890	2.417	536.4
73	130.00	86200	69.00	1050-01	8700-02	1050-01	4086-03	3394-03	4086-03	2610	2.229	535.3
73	130.00	86200	72.00	8330-02	6930-02	8330-02	3214-03	2659-03	3214-03	2060	1.754	535.0
73	130.00	86200	74.00	5900-02	4900-02	5900-02	2291-03	1903-03	2291-03	1470	1.212	534.1
73	130.00	86200	75.00	6100-02	5100-02	6100-02	2392-03	1987-03	2392-03	1530	1.227	533.9

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FUSELAGE

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## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPD8RK = .0000  
BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PC PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHC SLUGS /FT <sup>3</sup>
52	8.0000	2.999	30.05	.0000	180.0	573.3	.7000-01	1330.	55.60	3.107	3847.	.6040-04
53	8.0000	2.992	30.07	.0000	180.0	674.6	.7000-01	1331.	55.60	3.114	3849.	.6049-04
54	8.0000	2.975	30.07	.0000	180.0	673.1	.7000-01	1334.	55.90	3.106	3853.	.6020-04

RUN NUMBER	ST FP	R =
52	0.0175	
53	.2351-01	
54	.2349-01	
55	.2355-01	

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(GTO) BTU/R FT <sup>2</sup> SEC	H(TO) BTU/R FT <sup>2</sup> SEC	H(TAW) BTU/R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TH DEG. R
52	.00000	.0000	1.0000	.7718	.6291	.6618	.3354-01	.2734-01	.2876-01	19.66	105.9	610.5
52	.00000	.0000	2.0000	.7442	.6030	.6065	.3237-01	.2620-01	.2636-01	18.28	121.8	632.0
52	.00000	.0000	3.0000	.6160	.5018	.5191	.2677-01	.2191-01	.2256-01	15.63	102.0	612.8
52	.00000	.0000	4.0000	.5939	.3244	.3784	.1712-01	.1410-01	.1514-01	10.61	58.15	576.7
52	.00000	.0000	5.0000	.2930	.2419	.2548	.1273-01	.1051-01	.1151-01	8.013	44.11	567.3
52	.00000	.0000	6.0000	.2330	.1927	.2135	.1013-01	.8374-02	.9280-02	6.435	35.53	561.1
52	.00000	.0000	7.0000	.2239	.1846	.2269	.9731-02	.8021-02	.6333-02	6.068	40.37	573.0
52	.00000	.0000	8.0000	.2246	.1853	.2392	.9753-02	.8055-02	.9033-02	6.131	38.55	568.4
52	.00000	.0000	9.0000	.1930	.1641	.1886	.6644-02	.7130-02	.8110-02	5.406	37.13	571.3
52	.00000	.0000	10.000	.1459	.1263	.1443	.6322-02	.5483-02	.6270-02	4.193	28.88	565.5
52	.00000	.0000	11.000	.1313	.1086	.1249	.6322-02	.5229-02	.5932-02	4.022	25.39	560.5
52	.00000	.0000	12.000	.1313	.1086	.1249	.6322-02	.5229-02	.5932-02	4.022	25.39	560.5
52	.00000	.0000	13.000	.1313	.1086	.1249	.6322-02	.5229-02	.5932-02	4.022	25.39	560.5
52	.00000	.0000	14.000	.1313	.1086	.1249	.6322-02	.5229-02	.5932-02	4.022	25.39	560.5
52	.00000	.0000	15.000	.1313	.1086	.1249	.6322-02	.5229-02	.5932-02	4.022	25.39	560.5
52	.00000	.0000	16.000	.1313	.1086	.1249	.6322-02	.5229-02	.5932-02	4.022	25.39	560.5
52	.00000	.0000	17.000	.1313	.1086	.1249	.6322-02	.5229-02	.5932-02	4.022	25.39	560.5
52	.00000	.0000	18.000	.1313	.1086	.1249	.6322-02	.5229-02	.5932-02	4.022	25.39	560.5
52	.00000	.0000	19.000	.1313	.1086	.1249	.6322-02	.5229-02	.5932-02	4.022	25.39	560.5
52	.00000	.0000	20.000	.1313	.1086	.1249	.6322-02	.5229-02	.5932-02	4.022	25.39	560.5

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
52	.00000	.18000	20.000	.1061	.6770-01	.1022	.4611-02	.3812-02	.4443-02	2.925	18.45	562.3
52	.00000	.19000	21.000	.1079	.6930-01	.1041	.4689-02	.3879-02	.4523-02	2.925	18.87	559.4
52	.00000	.20000	22.000	.1096	.7100-01	.1059	.4768-02	.3968-02	.4697-02	2.925	17.15	562.2
52	.00000	.21000	23.000	.1113	.7270-01	.1077	.4856-02	.4168-02	.4966-02	2.925	15.98	561.3
52	.00000	.22000	24.000	.1130	.7440-01	.1095	.4944-02	.4338-02	.5254-02	2.925	15.44	563.5
52	.00000	.23000	25.000	.1147	.7610-01	.1113	.5032-02	.4508-02	.5542-02	2.925	14.06	564.6
52	.00000	.24000	26.000	.1164	.7780-01	.1131	.5120-02	.4680-02	.5830-02	2.925	14.73	569.3
52	.00000	.25000	27.000	.1181	.7950-01	.1149	.5208-02	.4852-02	.6118-02	2.925	14.67	569.9
52	.00000	.26000	28.000	.1198	.8120-01	.1167	.5296-02	.5024-02	.6406-02	2.925	13.58	571.8
52	.00000	.27000	29.000	.1215	.8290-01	.1185	.5384-02	.5196-02	.6694-02	2.925	12.88	572.9
52	.00000	.28000	30.000	.1232	.8460-01	.1203	.5472-02	.5368-02	.6982-02	2.925	13.67	576.3
52	.00000	.29000	31.000	.1249	.8630-01	.1221	.5560-02	.5540-02	.7270-02	2.925	12.86	576.4
52	.00000	.30000	32.000	.1266	.8800-01	.1239	.5648-02	.5712-02	.7558-02	2.925	12.79	579.1
52	.00000	.31000	33.000	.1283	.8970-01	.1257	.5736-02	.5884-02	.7846-02	2.925	14.07	580.6
52	.00000	.32000	34.000	.1300	.9140-01	.1275	.5824-02	.6056-02	.8134-02	2.925	15.64	581.5
52	.00000	.33000	35.000	.1317	.9310-01	.1293	.5912-02	.6228-02	.8422-02	2.925	19.75	581.0
52	.00000	.34000	36.000	.1334	.9480-01	.1311	.6000-02	.6400-02	.8710-02	2.925	22.11	580.9
52	.00000	.35000	37.000	.1351	.9650-01	.1329	.6088-02	.6576-02	.9000-02	2.925	21.76	576.6
52	.00000	.36000	38.000	.1368	.9820-01	.1347	.6176-02	.6764-02	.9290-02	2.925	21.43	573.4
52	.00000	.37000	39.000	.1385	.9990-01	.1365	.6264-02	.6952-02	.9580-02	2.925	22.63	575.2
52	.00000	.38000	40.000	.1402	.1010	.1383	.6352-02	.7140-02	.9870-02	2.925	24.13	578.1
52	.00000	.39000	41.000	.1419	.1027	.1401	.6440-02	.7312-02	.1010	2.925	15.45	563.4
52	.00000	.40000	42.000	.1436	.1044	.1419	.6528-02	.7484-02	.1030	2.925	16.24	561.3
52	.00000	.41000	43.000	.1453	.1061	.1437	.6616-02	.7656-02	.1050	2.925	15.36	564.3
52	.00000	.42000	44.000	.1470	.1078	.1455	.6704-02	.7828-02	.1070	2.925	.9840	540.0
52	.00000	.43000	45.000	.1487	.1095	.1473	.6792-02	.8000-02	.1090	2.925	1.405	540.3
52	.00000	.44000	46.000	.1504	.1112	.1491	.6880-02	.8172-02	.1110	2.925	17.89	575.8
52	.00000	.45000	47.000	.1521	.1129	.1509	.6968-02	.8344-02	.1130	2.925	16.13	580.8
52	.00000	.46000	48.000	.1538	.1146	.1527	.7056-02	.8516-02	.1150	2.925	12.82	580.0
52	.00000	.47000	49.000	.1555	.1163	.1545	.7144-02	.8688-02	.1170	2.925	13.80	581.9
52	.00000	.48000	50.000	.1572	.1180	.1563	.7232-02	.8860-02	.1190	2.925	19.72	576.2
52	.00000	.49000	51.000	.1589	.1197	.1581	.7320-02	.9032-02	.1210	2.925	32.35	563.2
52	.00000	.50000	52.000	.1606	.1214	.1600	.7408-02	.9204-02	.1230	2.925	21.76	557.9
52	.00000	.51000	53.000	.1623	.1231	.1618	.7496-02	.9376-02	.1250	2.925	22.40	578.2
52	.00000	.52000	54.000	.1640	.1248	.1636	.7584-02	.9548-02	.1270	2.925	25.45	579.6
52	.00000	.53000	55.000	.1657	.1265	.1654	.7672-02	.9720-02	.1290	2.925	35.02	560.6
52	.00000	.54000	56.000	.1674	.1282	.1672	.7760-02	.9892-02	.1310	2.925	36.51	567.3
52	.00000	.55000	57.000	.1691	.1300	.1690	.7848-02	.1000	.1330	2.925	33.63	568.2

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1803)

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(GTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
52	30.000	.92500	970.00	.9890-01	.8160-01	.9890-01	.4297-02	.3546-02	.4297-02	2.697	19.78	569.0
52	30.000	.95000	974.00	.1254	.1032	.1254	.5449-02	.4466-02	.5449-02	3.375	24.65	577.1
52	30.000	.97500	979.00	.6340-01	.5550-01	.6340-01	.2753-02	.2281-02	.2753-02	1.769	13.07	554.2
53	31.500	.20000	108.00	.9180-01	.7580-01	.9180-01	.3394-02	.3300-02	.3394-02	2.526	25.31	565.3
52	32.000	.40000	831.00	.1081	.8910-01	.1048	.4695-02	.3872-02	.4554-02	2.931	20.12	572.5
52	32.000	.50000	832.00	.9040-01	.7440-01	.8760-01	.3323-02	.3232-02	.3807-02	2.427	17.14	578.7
52	32.000	.60000	833.00	.8070-01	.6640-01	.7820-01	.3508-02	.2894-02	.3400-02	2.157	14.29	581.8
52	32.000	.70000	834.00	.7530-01	.6220-01	.7340-01	.3293-02	.2704-02	.3191-02	2.010	15.12	586.1
52	32.000	.80000	835.00	.7850-01	.6460-01	.7610-01	.3411-02	.2705-02	.3307-02	2.103	14.84	580.2
52	32.000	.90000	836.00	.9440-01	.7770-01	.9270-01	.4101-02	.3003-02	.4029-02	2.551	18.66	574.5
52	32.000	.95000	837.00	.1051	.8740-01	.1048	.4610-02	.3799-02	.4554-02	2.872	21.74	573.5
52	32.000	.97500	838.00	.1078	.8830-01	.1088	.4687-02	.3859-02	.4641-02	2.905	22.73	576.9
52	32.000	1.01500	839.00	.7590-01	.6250-01	.7250-01	.3297-02	.2721-02	.3149-02	2.071	16.57	568.5
52	32.000	1.03000	840.00	.7620-01	.6230-01	.7230-01	.3310-02	.2735-02	.3162-02	2.092	16.18	564.7
52	32.000	1.04500	841.00	.8160-01	.6740-01	.7750-01	.3544-02	.2928-02	.3386-02	2.240	17.03	564.6
52	32.000	1.06000	842.00	.6590-01	.5450-01	.6330-01	.2863-02	.2369-02	.2739-02	1.817	14.85	562.6
53	35.000	.50000-01	115.00	.1387	.1149	.1387	.6036-02	.5000-02	.6036-02	3.878	24.55	555.1
53	35.000	.20000	110.00	.1036	.8550-01	.1035	.4508-02	.3720-02	.4508-02	2.829	28.28	570.0
53	39.000	1.00000+00	116.00	.1091	.8950-01	.1081	.4702-02	.3899-02	.4702-02	3.038	19.27	551.4
53	40.000	.75000-01	121.00	.7860-01	.6520-01	.7860-01	.3421-02	.2838-02	.3421-02	2.218	14.08	549.2
53	40.000	.15000	111.00	.1790	.1476	.1790	.7788-02	.6422-02	.7788-02	4.873	35.69	571.8
53	40.000	.20000	112.00	.1005	.8290-01	.1005	.4371-02	.3604-02	.4371-02	2.734	30.03	572.0
53	42.500	.50000-01	127.00	.1018	.8450-01	.1018	.4432-02	.3675-02	.4432-02	2.665	15.14	550.6
53	45.000	.15000	117.00	.9200-01	.7530-01	.9200-01	.4005-02	.3321-02	.4005-02	2.591	15.14	550.6
52	45.000	.92500	969.00	.2340-01	.1940-01	.2340-01	.1015-02	.8432-03	.1015-02	.6620	4.917	544.2
52	45.000	.95000	973.00	.1200-02	.1000-02	.1200-02	.5050-04	.4209-04	.5060-04	.3300-01	.2480	539.1
52	45.000	.97500	978.00	.9000-03	.8000-03	.9000-03	.3991-04	.3320-04	.3991-04	.2600-01	.1950	538.9
53	51.000	.20000	118.00	.4810-01	.3930-01	.4810-01	.2032-02	.1737-02	.2092-02	1.363	8.666	546.2
53	60.000	.50000-01	131.00	.3540-01	.3030-01	.3540-01	.1585-02	.1317-02	.1585-02	1.038	7.012	542.6
53	67.500	.20000	128.00	.2970-01	.2460-01	.2970-01	.1290-02	.1072-02	.1290-02	.3410	6.244	545.5
52	75.000	.97500	977.00	.1200-03	.1000-03	.1200-03	.6445-05	.5362-05	.6445-05	.4000-02	.3300-01	538.7
52	85.000	.97500	976.00	.2000-02	.1700-02	.2000-02	.8822-04	.7338-04	.8822-04	.5800-01	.4320	539.1
53	105.00	.40100	135.00	.2020-01	.1680-01	.2020-01	.8807-03	.7314-03	.8807-03	.5740	4.423	545.9
53	105.00	.50100	136.00	.2650-01	.2200-01	.2650-01	.1154-02	.9573-03	.1154-02	.7480	5.936	548.9
53	105.00	.60100	137.00	.2890-01	.2400-01	.2890-01	.1253-02	.1042-02	.1253-02	.8150	6.464	548.9
53	105.00	.70100	138.00	.9400-02	.7800-02	.9400-02	.4084-03	.3393-03	.4084-03	.2670	2.124	543.7
53	105.00	.80000	139.00	.1820-02	.1520-02	.1820-02	.7863-04	.6540-04	.7863-04	.5200-01	.4130	539.7
52	113.00	.50100	146.00	.3530-01	.2930-01	.3530-01	.1274-02	.1042-02	.1274-02	.9970	7.907	548.5
53	116.00	.60100	147.00	.3920-01	.3260-01	.3920-01	.1707-02	.1416-02	.1707-02	1.107	8.778	549.2
53	116.00	.75100	148.00	.1390-01	.1160-01	.1390-01	.6058-03	.5035-03	.6058-03	.3960	3.156	543.2
53	120.00	.10000+00	152.00	.9700-02	.8000-02	.9700-02	.4203-03	.3496-03	.4203-03	.2770	1.670	539.2
53	120.00	.60500	247.00	.2940-01	.2440-01	.2940-01	.1281-02	.1064-02	.1281-02	.8330	6.830	547.1
53	120.00	.82900	248.00	.3570-01	.3040-01	.3570-01	.1595-02	.1324-02	.1595-02	1.037	8.497	547.5



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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1803)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PSIA	PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
34	8.000	3.293	30.09	.0000	180.0	762.3	.7800-01	1351.	97.90	3.498	3878.	.6692-04
35	8.000	3.311	30.09	.0000	180.0	760.5	.7800-01	1344.	97.40	3.490	3868.	.6711-04
36	8.000	3.342	30.11	.0000	180.0	762.1	.7800-01	1337.	96.00	3.497	3859.	.6758-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FP S
34	.7831-07	.4624-01	0.0175
35	.7840-07	.4614-01	.2233-01
36	.7803-07	.4615-01	.2224-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHOT DEG. R /SEC	TH DEG. R
34	.00000	.50000-02	2.0000	.7439	.6022	.6057	.3440-01	.2785-01	.2801-01	19.75	131.0	641.8
34	.00000	.10000-01	3.0000	.6243	.5088	.5263	.2887-01	.2353-01	.2434-01	17.19	111.7	620.5
34	.00000	.20000-01	4.0000	.3958	.3263	.3503	.1930-01	.1509-01	.1620-01	11.61	63.46	581.5
34	.00000	.30000-01	5.0000	.2931	.2423	.2650	.1355-01	.1120-01	.1235-01	8.734	47.98	571.3
34	.00000	.40000-01	6.0000	.2353	.1943	.2138	.1088-01	.0914-02	.9930-02	7.093	39.11	564.0
34	.00000	.50000-01	7.0000	.2238	.1853	.2038	.1041-01	.0617-02	.8533-02	6.654	44.24	577.5
34	.00000	.60000-01	8.0000	.2351	.1661	.2038	.0946-02	.7397-02	.8533-02	6.636	42.02	572.5
34	.00000	.70000-01	9.0000	.1935	.1597	.1815	.6672-02	.5975-02	.6820-02	5.726	39.23	575.7
34	.00000	.80000-01	10.000	.1562	.1292	.1475	.7224-02	.5527-02	.6326-02	4.670	32.10	569.3
34	.00000	.90000-01	11.000	.1443	.1195	.1338	.6672-02	.5527-02	.6326-02	4.349	27.40	564.0
34	.00000	.10000+00	12.000	.1332	.1104	.1238	.6161-02	.5104-02	.5864-02	4.017	23.95	563.8
34	.00000	.12000	14.000	.1209	.1003	.1157	.5593-02	.4635-02	.5343-02	3.672	20.30	558.8
34	.00000	.13000	15.000	.1130	.9770-01	.1093	.5226-02	.4331-02	.5009-02	3.416	19.85	562.0
34	.00000	.14000	16.000	.1042	.8640-01	.1030+00	.4819-02	.3934-02	.4625-02	3.155	19.91	561.1
34	.00000	.15000	18.000	.1057	.8240-01	.1026	.4932-02	.4086-02	.4743-02	3.217	19.71	563.6
34	.00000	.16000	19.000	.1071	.8870-01	.1032	.4954-02	.4103-02	.4770-02	3.225	20.31	554.9
34	.00000	.17000	20.000	.1061	.8760-01	.1022	.4904-02	.4061-02	.4726-02	3.190	20.09	565.4



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-493 (AEDC V41B-57A) CRITTER FUS: AGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(14M) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
34	30.000	.92500	970.00	.1008	.8330-01	.1018	.4661-02	.3654-02	.4661-02	3.004	22.01	571.3
34	30.000	.95000	974.00	.1306	.1077	.1316	.6038-02	.4979-02	.6038-02	3.833	27.94	581.0
34	30.000	.97500	979.00	.7200-01	.5970-01	.7200-01	.3330-02	.2763-02	.3330-02	2.191	16.16	557.9
35	31.500	.20000	108.00	.9420-01	.7790-01	.9420-01	.4346-02	.3594-02	.4346-02	2.792	27.95	566.9
34	32.000	.40000	831.00	.1064	.8790-01	.1032	.4320-02	.4063-02	.4772-02	3.148	21.57	575.9
34	32.000	.50000	832.00	.9100-01	.7500-01	.880-01	.4209-02	.3457-02	.4090-02	2.659	18.73	584.1
34	32.000	.60000	833.00	.8100-01	.6500-01	.7850-01	.3745-02	.3082-02	.3630-02	2.348	15.50	589.0
34	32.000	.70000	834.00	.1500-01	.5300-01	.7430-01	.3544-02	.2913-02	.3434-02	2.213	16.60	591.4
34	32.000	.80000	835.00	.9400-01	.7750-01	.9130-01	.4355-02	.3556-02	.4223-02	2.742	19.29	586.3
34	32.000	.90000	836.00	.1400	.1250	.1468	.6311-02	.5656-02	.6733-02	4.334	31.47	588.7
34	32.000	.95000	837.00	.1742	.1433	.1720	.6054-02	.5626-02	.7353-02	5.058	38.02	587.7
34	32.000	.97500	838.00	.1834	.1493	.1766	.6342-02	.6555-02	.8259-02	5.199	40.38	592.5
34	32.000	1.0150	839.00	.1301	.1073	.1212	.6015-02	.4562-02	.5743-02	3.829	30.47	579.2
34	32.000	1.0300	840.00	.1235	.1021	.1181	.5715-02	.4723-02	.5460-02	3.675	28.31	572.8
34	32.000	1.0450	841.00	.1235	.1070	.1237	.5938-02	.4947-02	.5720-02	3.846	29.11	573.6
34	32.000	1.0600	842.00	.1026	.8490-01	.9800-01	.4743-02	.3624-02	.4532-02	3.071	25.03	568.4
35	35.000	.50000-01	115.00	.1158	.1158	.1335	.6439-02	.5242-02	.6439-02	4.212	26.66	555.2
35	35.000	.20000	110.00	.1061	.8770-01	.1061	.4838-02	.4045-02	.4838-02	3.125	31.22	571.4
35	39.000	.10000+00	116.00	.1113	.9200-01	.1113	.5135-02	.4255-02	.5135-02	3.381	21.44	551.3
35	35.000	.75000-01	121.00	.8000-01	.6500-01	.8000-01	.3692-02	.3058-02	.3692-02	2.441	15.50	548.3
35	40.000	.15000	111.00	.1773	.1464	.1773	.8181-02	.6753-02	.8181-02	5.200	38.04	573.9
35	40.000	.20000	112.00	.1019	.8410-01	.1019	.4701-02	.3881-02	.4701-02	2.988	32.79	573.8
35	42.500	.50000-01	127.00	.1024	.8500-01	.1024	.4724-02	.3923-02	.4724-02	3.110	20.92	551.0
35	45.000	.15000	117.00	.9170-01	.7620-01	.9170-01	.4232-02	.3517-02	.4232-02	2.797	16.36	548.6
34	45.000	.92500	969.00	.2450-01	.2000-01	.2450-01	.1135-02	.9444-03	.1135-02	.7610	5.649	545.0
34	45.000	.95000	973.00	.1900-02	.1500-02	.1850-02	.8179-04	.6216-04	.8179-04	.5500-01	.4110	540.1
34	45.000	.97500	978.00	.1500-02	.1200-02	.1500-02	.6656-04	.5714-04	.6656-04	.4600-01	.3450	539.3
35	51.000	.20000	119.00	.4770-01	.3970-01	.4770-01	.2203-02	.1632-02	.2203-02	1.463	9.304	545.4
35	60.000	.50000-01	131.00	.3540-01	.2500-01	.3540-01	.1635-02	.1351-02	.1635-02	1.092	7.382	541.4
35	67.500	.20000	128.00	.3500-01	.2500-01	.3000-01	.1384-02	.1152-02	.1384-02	.9210	6.843	543.9
34	75.000	.97500	977.00	.4000-03	.4000-03	.4000-03	.1967-04	.1633-04	.1967-04	.1300-01	.9900-01	539.3
34	85.000	.97500	976.00	.1700-02	.1400-02	.1700-02	.6031-04	.6695-04	.8071-04	.5400-01	.4050	539.2
35	105.00	.40100	135.00	.1850-01	.1550-01	.1850-01	.6555-03	.7130-03	.8555-03	.5720	4.418	541.7
35	105.00	.50100	136.00	.2100-01	.1700-01	.2610-01	.1203-02	.1000-02	.1203-02	.7970	6.331	546.8
35	105.00	.60100	137.00	.2300-01	.2300-01	.3550-01	.1638-02	.1361-02	.1638-02	1.081	8.568	549.7
35	105.00	.70100	138.00	.2300-02	.8100-02	.9800-02	.4518-03	.3760-03	.4518-03	.3010	2.397	543.0
35	105.00	.80100	139.00	.2300-02	.6100-02	.9800-02	.4518-03	.3760-03	.4518-03	.7500-01	.5970	538.7
35	113.00	.60100	145.00	.2300-02	.2600-01	.3350-01	.1115-03	.9291-04	.1515-02	1.037	8.234	547.2
35	116.00	.60100	147.00	.4100-01	.3400-01	.4100-01	.1566-02	.1302-02	.1566-02	1.248	9.893	549.5
35	116.00	.75100	148.00	.1250-01	.1070-01	.1250-01	.1890-02	.1570-02	.1890-02	.3960	3.155	542.5
35	120.00	.10000+00	132.00	.9500-02	.7900-02	.9500-02	.4944-03	.4944-03	.4386-03	.2950	1.782	537.2
35	120.00	.60500	27.00	.3350-01	.2800-01	.3350-01	.1551-02	.1290-02	.1551-02	1.031	8.466	544.5
35	120.00	.82900	2-8.00	.4120-01	.3420-01	.4120-01	.1900-02	.1590-02	.1900-02	1.262	10.35	545.4

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

SN NUMBER	THETA	X/L	T/C NO	H/HREF H=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO BTU/ R FT/SEC	H1TO BTU/ R FT/SEC	H1TAW BTU/ R FT/SEC	QOOT BTU/ R FT/SEC	DTWDT DEG. R /SEC	TW DEG. R
35	120.00	36200	249.00	3410-01	2840-01	3410-01	1575-02	1311-02	1575-02	1.053	7.659	541.1
35	130.00	30500	253.00	4530-01	3770-01	4530-01	2091-02	1739-02	2091-02	1.388	11.03	545.8
35	130.00	82900	254.00	6290-01	5230-01	6290-01	2903-02	2413-02	2903-02	1.924	14.81	546.8
35	130.00	85200	255.00	3500-01	2920-01	3500-01	1616-02	1346-02	1616-02	1.083	8.919	539.4
35	120.00	96700	256.00	1750-01	1460-01	1750-01	6090-03	4746-03	6090-03	5.490	5.037	529.7
35	135.00	40100	142.00	1100-02	9000-03	1100-02	4881-04	4070-04	4881-04	3300-01	2560	534.4
35	135.00	50100	143.00	2200-02	1200-02	2200-02	9943-04	8285-04	9943-04	6700-01	5510	537.3
35	135.00	60100	144.00	4300-02	3500-02	4300-02	1564-03	1635-03	1564-03	1320	1.019	539.2
35	135.00	70100	145.00	7300-02	6100-02	7300-02	3385-03	2621-03	3385-03	2270	1.812	538.9
35	140.00	18000	85.000	2000-02	6600-02	2000-02	3672-03	3059-03	3672-03	2460	1.899	538.2
35	140.00	87.000	87.000	9300-02	7700-02	9300-02	4281-03	3355-03	4281-03	2880	2.220	537.0
35	145.00	80500	259.00	2670-01	2670-01	2670-01	1230-02	1034-02	1230-02	8230	6.360	540.7
36	145.00	82900	260.00	2200-01	2360-01	2200-01	1310-02	1091-02	1310-02	8720	6.556	537.6
36	145.00	86200	261.00	5900-02	4800-02	5900-02	2667-03	2222-03	2667-03	1780	1.473	534.9
35	150.00	18000	86.000	6500-02	7100-02	6500-02	3935-03	3290-03	3935-03	2640	1.958	538.3
35	150.00	18000	87.000	1000-01	9100-02	1000-01	5029-03	4190-03	5029-03	3380	2.515	538.2
35	155.00	19000	82.000	2000-03	9200-02	2000-03	8510-05	705-05	8510-05	6000-02	4200-01	539.5
35	155.00	18000	83.000	4000-03	4000-03	4000-03	2015-04	1678-04	2015-04	1300-01	1000-00	539.6
35	160.00	18000	77.000	3270-01	2720-01	3270-01	1508-02	1255-02	1508-02	1.005	7.999	543.2
35	175.00	15000	81.000	4260-01	3560-01	4260-01	1976-02	1644-02	1976-02	1.315	9.449	544.1
35	175.00	15500	79.000	2140-01	1780-01	2140-01	9893-03	8235-03	9893-03	6610	4.914	541.5
35	175.00	17500	78.000	8040-01	6580-01	8040-01	3711-02	3084-02	3711-02	2.454	17.60	548.2
34	180.00	10000-01	59.000	4620-01	4010-01	4620-01	2228-02	1854-02	2228-02	5.273	38.76	564.2
34	180.00	25000-01	60.000	2050-01	1710-01	2050-01	9502-03	7916-03	9502-03	1.493	10.72	545.8
34	180.00	50000-01	61.000	1030-01	9100-02	1030-01	5043-03	4203-03	5043-03	6410	4.083	541.5
34	180.00	75000-01	62.000	9900-02	8200-02	9900-02	4552-03	3794-03	4552-03	3410	2.173	540.1
34	180.00	10000-00	63.000	1330-01	1110-01	1330-01	6170-03	5141-03	6170-03	3080	2.020	539.9
34	180.00	61.000	61.000	2400-01	2000-01	2400-01	1109-02	9236-03	1109-02	4170	2.905	540.6
34	180.00	15000	65.000	7390-01	6150-01	7390-01	3419-02	2842-02	3419-02	7470	5.211	541.5
34	180.00	16000	66.000	9590-01	8060-01	9590-01	4481-02	3726-02	4481-02	2.278	12.65	549.5
34	180.00	17000	67.000	1460-01	1220-01	1460-01	6760-03	5636-03	6760-03	2.988	16.60	548.9
34	180.00	20000	69.000	1050-01	8800-02	1050-01	4870-03	4061-03	4870-03	4580	2.843	538.1
34	180.00	40100	72.000	1050-01	8800-02	1050-01	4870-03	4061-03	4870-03	3300	2.811	538.1
34	180.00	50000	73.000	9600-02	8000-02	9600-02	4449-03	3709-03	4449-03	3010	2.562	539.1
34	180.00	60100	74.000	7300-02	6100-02	7300-02	3387-03	2823-03	3387-03	2290	1.885	539.7
34	180.00	70100	75.000	6600-02	5500-02	6600-02	3041-03	2535-03	3041-03	2060	1.643	538.9

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

FUSELAGE

PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEC.	YAW DEC.	PHI MODEL DEG.	P0 PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
7	8.000	3.750	30.10	.0000	180.0	862.2	.6800-01	1345.	97.50	3.957	3870.	.7603-04
8	8.000	3.754	30.10	.0000	180.0	861.4	.8800-01	1343.	97.30	3.953	3867.	.7607-04
9	8.000	3.754	30.08	.0000	180.0	863.5	.8800-01	1345.	97.50	3.963	3870.	.7613-04

RUN NUMBER	MU	LB-SEC /F-2	ST FP	HREF BTU/P F-2SEC	R =
7	.7646-07	.4914-01	5.0175	.4914-01	.2988-01
8	.7835-07	.4911-01	.2037-01	.4911-01	.2037-01
9	.7848-07	.4918-01	.2036-01	.4918-01	.2036-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/R F12SEC	H(10) BTU/R F12SEC	H(TAW) BTU/R F12SEC	QDOT BTU/ F12SEC	DTWDT DEG. R /SEC	TW DEG. R
7	.00000	.00000	1.0000	.7652	.6215	.6544	.3760-01	.3054-01	.3216-01	21.87	116.8	628.7
7	.00000	.50000-02	2.0000	.7428	.6004	.6339	.3650-01	.2950-01	.2968-01	20.68	137.1	643.7
7	.00000	.10000-01	3.0000	.6329	.5154	.5332	.3110-01	.2533-01	.2620-01	18.36	119.3	620.2
7	.00000	.30000-01	5.0000	.5320	.2413	.2640	.1435-01	.1185-01	.1297-01	9.182	50.46	570.5
7	.00000	.40000-01	6.0000	.2327	.1927	.2134	.1144-01	.9469-02	.1048-01	7.404	40.84	563.0
7	.00000	.50000-01	7.0000	.2220	.1832	.2052	.1091-01	.9000-02	.1009-01	6.910	45.88	577.1
7	.00000	.60000-01	8.0000	.2221	.1835	.2069	.1091-01	.9015-02	.1017-01	6.968	43.74	571.9
7	.00000	.70000-01	9.0000	.1908	.1575	.1790	.9378-02	.7739-02	.8796-02	5.955	40.81	575.4
7	.00000	.80000-01	10.000	.1547	.1279	.1460	.7600-02	.6284-02	.7173-02	4.880	33.56	568.3
7	.00000	.90000-01	11.000	.1437	.1190	.1362	.7062-02	.5849-02	.6694-02	4.574	28.85	562.6
7	.00000	.10000-00	12.000	.1303	.1079	.1240	.6403-02	.5303-02	.6094-02	4.149	24.75	562.5
7	.00000	.12000	14.000	.1047	.0690-01	.1002	.5147-02	.4258-02	.4925-02	3.361	18.59	557.4
7	.00000	.13000	15.000	.1123	.9300-01	.1076	.5518-02	.4512-02	.5280-02	3.586	20.85	560.6
7	.00000	.14000	16.000	.1025	.8500-01	.9840-01	.5039-02	.4176-02	.4835-02	3.279	20.71	559.7
7	.00000	.15000	18.000	.1078	.8330-01	.1037	.5233-02	.4337-02	.5094-02	3.433	21.05	562.5
7	.00000	.16000	19.000	.1057	.8750-01	.1017	.5192-02	.4298-02	.4999-02	3.357	21.15	563.9
7	.00000	.18000	20.000	.1048	.8670-01	.1010	.5150-02	.4262-02	.4961-02	3.325	20.95	564.6

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OH-49B (AEDC V41B-57A) OFB TER FUSELAGE

ROW NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
1	30000	19000	21.000	.1025	.8490-01	.9890-01	.5038-02	.4173-02	.4861-02	3.267	20.61	561.9
2	30000	20000	22.000	.9900-01	.8200-01	.9560-01	.4656-02	.4027-02	.4700-02	3.143	19.80	564.4
3	30000	23000	23.000	.9360-01	.7750-01	.9060-01	.4599-02	.3807-02	.4454-02	2.976	18.76	563.3
4	30000	26000	24.000	.9100-01	.7530-01	.8830-01	.4472-02	.3701-02	.4333-02	2.890	18.21	564.0
5	30000	30000	25.000	.8230-01	.6810-01	.7990-01	.4046-02	.3348-02	.3925-02	2.610	16.44	565.2
6	30000	35000	26.000	.9690-01	.7180-01	.8430-01	.4271-02	.3529-02	.4142-02	2.735	17.18	570.0
7	30000	40000	27.000	.7940-01	.6550-01	.7700-01	.3900-02	.3221-02	.3782-02	2.487	16.55	572.5
8	30000	45000	28.000	.7480-01	.6170-01	.7250-01	.3674-02	.3031-02	.3562-02	2.331	15.97	575.8
9	30000	50000	29.000	.7840-01	.6470-01	.7610-01	.3555-02	.3178-02	.3739-02	2.435	17.78	578.6
10	30000	55000	30.000	.1010	.8330-01	.9790-01	.4955-02	.4091-02	.4813-02	3.126	22.79	580.7
11	30000	60000	31.000	.1872	.1535	.1611	.9199-02	.7546-02	.8911-02	5.648	40.86	596.4
12	30000	65000	32.000	.2462	.2010	.2387	.1210-01	.9879-02	.1171-01	7.246	53.83	611.5
13	30000	70000	33.000	.2785	.2272	.2696	.1369-01	.1116-01	.1325-01	8.138	58.31	615.9
14	30000	75000	34.000	.2828	.2305	.2735	.1390-01	.1133-01	.1345-01	8.260	59.18	616.0
15	30000	80000	35.000	.2578	.2104	.2524	.1267-01	.1034-01	.1240-01	7.557	56.08	613.8
16	30000	85000	36.000	.2318	.1897	.2275	.1139-01	.9321-02	.1118-01	6.905	48.16	604.1
17	30000	90000	37.000	.1932	.1585	.1903	.9496-02	.7788-02	.9350-02	5.823	46.19	597.2
18	30000	95000	38.000	.1923	.1576	.1896	.9451-02	.7742-02	.9330-02	5.759	46.19	601.0
19	30000	10000	39.000	.2023	.1655	.2002	.9340-02	.8131-02	.9338-02	6.007	48.06	606.0
20	30000	10500	40.000	.1331	.1073	.1292	.6394-02	.5274-02	.6350-02	4.049	29.58	577.1
21	30000	11000	41.000	.1242	.1025	.1233	.6102-02	.5036-02	.6061-02	3.885	28.42	573.7
22	30000	11500	42.000	.1043	.1000-01	.1036	.5124-02	.4225-02	.5089-02	3.236	26.76	578.4
23	30000	12000	43.000	.1213	.1000-01	.1205	.5960-02	.4914-02	.5930-02	3.764	29.43	578.8
24	30000	12500	44.000	.6600-02	.5900-02	.6600-02	.3267-03	.2722-03	.3267-03	2.190	26.76	578.9
25	30000	13000	45.000	.2460-01	.2040-01	.2460-01	.1207-02	.1005-02	.1207-02	.8070	5.001	541.6
26	30000	13500	46.000	.4700-02	.3900-02	.4700-02	.2313-03	.1937-03	.2313-03	.1550	.9380	539.0
27	30000	14000	47.000	.8000-01	.7090-01	.8330-01	.4224-02	.3482-02	.4095-02	2.665	20.83	579.5
28	30000	14500	48.000	.8100-01	.6670-01	.7650-01	.3580-02	.3277-02	.3858-02	2.495	19.46	583.5
29	30000	15000	49.000	.6350-01	.5270-01	.6160-01	.3123-02	.2571-02	.3027-02	1.955	17.08	584.3
30	30000	15500	50.000	.1760	.1441	.1705	.8551-02	.7082-02	.8377-02	5.252	37.87	603.3
31	30000	16000	51.000	.2784	.2271	.2694	.1358-01	.1116-01	.1324-01	8.155	58.48	614.3
32	30000	16500	52.000	.2076	.1699	.2038	.1020-01	.8349-02	.1001-01	6.184	47.76	604.1
33	30000	17000	53.000	.1749	.1435	.1727	.8594-02	.7049-02	.8484-02	5.275	45.79	596.6
34	30000	17500	54.000	.2045	.1631	.2046	.1005-01	.8306-02	.1005-01	6.432	37.24	568.6
35	30000	18000	55.000	.1242	.1028	.1242	.6100-02	.5050-02	.6100-02	3.940	24.84	562.9
36	30000	18500	56.000	.1248	.1027	.1248	.6135-02	.5048-02	.6135-02	3.835	27.90	565.3
37	30000	19000	57.000	.1571	.1290	.1571	.7719-02	.6339-02	.7719-02	4.770	34.58	592.4
38	30000	19500	58.000	.1397	.1149	.1397	.6665-02	.5646-02	.6665-02	4.276	31.07	587.5
39	30000	20000	59.000	.2315	.1916	.2315	.1137-01	.9406-02	.1137-01	7.316	40.32	565.2
40	30000	20500	60.000	.1420-01	.1180-01	.1420-01	.6564-03	.5800-03	.6564-03	.4670	2.894	540.1
41	30000	21000	61.000	.2192	.1810	.2192	.1077-01	.8887-02	.1077-01	6.838	42.89	573.6
42	30000	21500	62.000	.1398	.1154	.1398	.6667-02	.5666-02	.6667-02	4.349	38.15	575.4



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(RV1803)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
7	30.000	.92500	970.00	.1037	.8560-01	.1037	.5098-02	.4208-02	.5098-02	3.245	23.74	573.8
7	30.000	.95000	974.00	.1378	.1134	.1378	.6770-02	.5571-02	.6770-02	4.229	30.75	585.8
7	30.000	.97500	979.00	.7980-01	.6610-01	.7980-01	.3922-02	.3250-02	.3922-02	2.551	18.79	560.1
8	31.500	.20000	108.00	.5480-01	.7830-01	.9480-01	.4655-02	.3345-02	.4655-02	2.966	29.63	571.6
7	32.000	.40000	431.00	.1053	.8690-01	.1021	.5174-02	.4269-02	.5017-02	3.283	22.50	575.7
7	32.000	.50000	832.00	.9270-01	.7630-01	.8990-01	.4556-02	.3751-02	.4416-02	2.858	20.15	582.9
7	32.000	.60000	833.00	.6530-01	.7020-01	.8270-01	.4191-02	.3449-02	.4062-02	2.618	17.31	595.8
7	32.000	.70000	834.00	.6530-01	.7060-01	.8320-01	.4220-02	.3468-02	.4033-02	2.617	19.65	590.2
7	32.000	.80000	835.00	.1245	.1023	.1206	.5116-02	.5029-02	.5528-02	3.758	26.68	589.6
7	32.000	.90000	836.00	.1071	.1535	.1837	.9195-02	.7542-02	.9029-02	5.639	40.78	597.1
7	32.000	.95000	837.00	.1549	.1599	.1924	.9576-02	.7859-02	.9455-02	5.892	44.13	595.1
7	32.000	.97500	838.00	.1934	.1625	.1953	.9747-02	.7987-02	.9648-02	5.946	46.00	600.4
7	32.000	1.0150	839.00	.1339	.1151	.1334	.6873-02	.5554-02	.6558-02	4.287	34.00	586.7
7	32.000	1.0300	840.00	.1354	.1115	.1292	.6655-02	.5461-02	.6351-02	4.181	32.07	582.0
7	32.000	1.0450	841.00	.1370	.1129	.1307	.6730-02	.5547-02	.6424-02	4.241	31.99	580.3
7	32.000	1.0600	842.00	.1055	.8700-01	.1007	.5182-02	.4277-02	.4949-02	3.293	26.76	574.9
8	35.000	.50000-01	115.00	.1400	.1160	.1400	.6874-02	.5698-02	.6874-02	4.473	28.27	553.0
8	35.000	.20000	110.00	.1041	.8590-01	.1041	.5113-02	.4217-02	.5113-02	3.231	32.19	576.8
8	35.000	.10000+00	116.00	.1092	.9060-01	.1092	.5364-02	.4451-02	.5364-02	3.513	22.25	553.8
8	35.000	.76000-01	121.00	.7910-01	.6570-01	.7910-01	.3683-02	.3226-02	.3683-02	2.560	16.25	549.4
8	40.000	.20000	111.00	.1780	.8380-01	.1017	.8740-02	.7205-02	.8740-02	5.508	40.20	578.5
8	40.000	.50000-01	127.00	.1011	.8390-01	.1011	.4965-02	.4120-02	.4965-02	3.253	21.85	553.4
7	45.000	.15000	117.00	.9340-01	.7760-01	.9340-01	.4587-02	.3809-02	.4587-02	3.016	17.62	551.2
7	45.000	.25000	959.00	.2550-01	.2120-01	.2550-01	.1255-02	.1044-02	.1255-02	.8340	6.191	545.6
7	45.000	.35000	973.00	.2000-02	.1600-02	.2000-02	.9519-04	.6311-04	.9518-04	.6400-01	.4800	540.0
7	45.000	.45000	978.00	.1600-02	.1400-02	.1600-02	.7991-04	.6656-04	.7991-04	.5400-01	.3990	539.9
8	51.000	.20000	118.00	.4720-01	.3920-01	.4720-01	.2318-02	.1927-02	.2318-02	1.533	9.742	547.4
8	51.000	.50000-01	131.00	.3530-01	.2940-01	.3530-01	.1732-02	.1441-02	.1732-02	1.153	7.791	542.8
8	57.500	.20000	128.00	.2940-01	.2440-01	.2940-01	.1444-02	.1200-02	.1444-02	.9570	7.097	546.0
7	75.000	.97500	977.00	.6030-03	.5000-03	.8000-03	.3785-04	.3152-04	.3785-04	.2500-01	1.990	540.0
7	85.000	.97500	975.00	.3000-02	.2500-02	.3000-02	.1455-03	.1213-03	.1456-03	.9800-01	.7260	540.3
8	105.00	.50100	135.00	.2390-01	.1930-01	.2390-01	.9272-03	.7713-03	.9272-03	.6160	4.754	544.0
8	105.00	.60100	137.00	.4110-01	.3420-01	.4110-01	.1173-02	.9752-03	.1173-02	.7760	6.156	547.7
8	105.00	.70100	139.00	.1220-01	.1010-01	.1220-01	.2020-02	.1677-02	.2020-02	1.327	10.51	551.7
8	105.00	.80000	139.00	.3420-02	.2800-02	.3400-02	.5969-03	.4966-03	.5969-03	.3970	3.155	544.2
8	105.00	.90100	146.00	.7700-01	.6200-01	.7700-01	.1395-03	.1135-02	.1675-03	.1120	.8930	539.9
8	113.00	.60100	147.00	.3680-01	.3200-01	.3310-01	.1627-02	.1353-02	.1627-02	1.076	8.543	547.5
8	116.00	.75100	147.00	.1890-01	.1580-01	.1900-01	.1905-02	.1583-02	.1905-02	1.256	9.951	549.3
8	120.00	.10000+00	152.00	.9000-02	.7500-02	.9100-02	.9335-03	.7766-03	.9335-03	.6210	4.937	543.9
8	120.00	.20000	153.00	.6700-01	.5700-01	.6970-01	.4485-03	.3735-03	.4485-03	.3010	1.815	538.4
8	120.00	.30000	154.00	.7250-01	.6030-01	.7260-01	.3371-02	.2797-02	.3371-02	2.204	17.97	555.1
8	120.00	.40000	155.00	.7250-01	.6030-01	.7260-01	.3567-02	.2959-02	.3567-02	2.330	19.00	555.5

AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	1/4REF (TAW)	H(ISTO) BTU/R FT2SEC	H(OTO) BTU/R FT2SEC	H(UTAW) BTU/R FT2SEC	QOOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TW DEG. R
9	120.00	.6200	249.00	.4870-01	.4050-01	.4870-01	.2393-02	.1989-02	.2393-02	1.583	11.49	547.2
9	130.00	.6500	253.00	.7840-01	.6510-01	.7840-01	.3551-02	.3194-02	.3551-02	2.517	19.89	555.0
8	120.00	.6200	254.00	.7820-01	.6490-01	.7820-01	.3841-02	.3489-02	.3841-02	2.522	19.36	552.2
8	130.00	.6500	255.00	.7640-01	.6330-01	.7640-01	.1785-02	.1486-02	.1785-02	1.190	9.782	542.2
9	120.00	.6200	256.00	.1150-01	.9830-02	.1150-01	.5525-03	.4692-03	.5525-03	.3300	3.475	533.6
8	130.00	.6500	142.00	.1000-02	.9000-02	.1000-02	.9121-04	.4154-04	.9121-04	.4000-01	.2610	536.9
8	135.00	.6010	143.00	.1000-03	.1000-03	.1000-03	.9142-04	.7616-04	.9142-04	.6100-01	.5050	538.4
8	135.00	.6010	144.00	.1100-02	.7400-02	.1100-02	.1295-03	.1622-03	.1295-03	.1330	1.032	540.1
8	140.00	.6100	145.00	.1100-02	.9000-02	.1100-02	.3454-03	.2883-03	.3454-03	.2320	1.851	539.1
8	140.00	.6100	65.000	.1100-02	.9000-03	.1100-02	.5477-04	.4591-04	.5477-04	.3000-01	.2221	539.8
8	145.00	.6100	67.000	.1010-01	.6400-02	.1010-01	.1973-03	.4142-03	.1973-03	.3330	2.551	539.7
9	145.00	.6200	257.00	.1070-01	.3300-01	.1070-01	.1000-02	.1183-02	.1000-02	1.32	10.23	545.4
9	145.00	.6200	258.00	.1070-01	.3300-01	.1070-01	.1235-02	.1235-02	.1235-02	.8300	6.240	538.0
8	150.00	.6100	261.00	.1000-02	.6000-02	.1000-02	.2246-03	.1955-03	.2246-03	.1590	1.305	536.1
8	150.00	.6100	84.000	.1100-01	.6000-02	.1100-01	.5405-03	.4301-03	.5405-03	.2440	1.815	540.2
8	150.00	.6100	85.000	.1000-03	.1000-03	.1000-03	.6213-05	.6843-05	.6213-05	.3610	2.686	540.8
8	150.00	.6100	86.000	.1000-03	.1000-03	.1000-03	.6213-05	.6843-05	.6213-05	.6000-02	4.100-01	538.1
8	155.00	.6000	80.000	.1070-01	.1070-01	.1070-01	.5865-05	.4896-05	.5865-05	.4200	3.127	541.0
8	155.00	.6000	81.000	.1070-01	.1070-01	.1070-01	.1749-02	.1454-02	.1749-02	1.157	9.190	547.3
8	155.00	.6000	81.000	.1070-01	.1070-01	.1070-01	.1749-02	.1454-02	.1749-02	1.406	10.09	546.3
8	155.00	.6000	79.000	.1070-01	.1070-01	.1070-01	.1267-02	.1067-02	.1267-02	.7090	5.264	544.1
8	155.00	.6000	79.000	.1070-01	.1070-01	.1070-01	.1267-02	.1067-02	.1267-02	2.729	19.53	552.4
8	155.00	.6000	79.000	.1070-01	.1070-01	.1070-01	.1267-02	.1067-02	.1267-02	5.525	40.63	563.6
7	160.00	.6000-01	59.000	.1139	.3340-01	.1139	.6542-02	.7071-02	.6542-02	1.548	11.12	544.9
7	160.00	.6000-01	60.000	.1139	.3340-01	.1139	.6542-02	.7071-02	.6542-02	2.325-02	4.238	540.5
7	160.00	.6000-01	61.000	.1090-01	.1580-01	.1090-01	.9321-03	.8162-03	.9321-03	.6650	4.238	539.5
7	160.00	.6000-01	62.000	.1090-01	.1580-01	.1090-01	.5370-03	.4473-03	.5370-03	.3600	2.298	539.8
7	160.00	.6000-01	63.000	.1090-01	.1580-01	.1090-01	.5370-03	.4473-03	.5370-03	.3100	2.036	539.1
7	160.00	.6000-01	64.000	.1090-01	.1580-01	.1090-01	.5370-03	.4473-03	.5370-03	.4270	2.976	542.8
7	160.00	.6000	65.000	.1090-01	.1580-01	.1090-01	.5370-03	.4473-03	.5370-03	.7860	5.473	551.5
7	160.00	.6000	66.000	.1090-01	.1580-01	.1090-01	.5370-03	.4473-03	.5370-03	2.423	13.44	551.5
7	160.00	.6000	67.000	.1090-01	.1580-01	.1090-01	.5370-03	.4473-03	.5370-03	3.157	17.52	551.2
7	160.00	.6000	69.000	.1090-01	.1580-01	.1090-01	.5370-03	.4473-03	.5370-03	.4940	3.063	540.2
7	160.00	.6000	72.000	.1090-01	.1580-01	.1090-01	.5370-03	.4473-03	.5370-03	.3750	3.190	541.3
7	160.00	.6000	73.000	.1090-01	.1580-01	.1090-01	.5370-03	.4473-03	.5370-03	.3280	2.788	540.6
7	160.00	.6000	74.000	.1090-01	.1580-01	.1090-01	.5370-03	.4473-03	.5370-03	.2460	2.022	539.7
7	160.00	.6000	75.000	.1090-01	.1580-01	.1090-01	.5370-03	.4473-03	.5370-03	.2240	1.785	539.5

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1804)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = -2.000 ELEVTR = .0000 SPDRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	FN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
175	7.900	.5339	30.07	2.000	202.0	133.4	.1270-01	1274.	94.50	.5310	3763.	.1079-04
176	7.900	.5353	30.08	2.000	202.0	139.5	.1200-01	1272.	94.40	.5320	3761.	.1082-04
177	7.900	.5351	30.08	2.000	202.0	139.6	.1200-01	1272.	94.30	.5320	3760.	.1083-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	WREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
175	.7608-07	0.0175	.1783-01	.5538-01
176	.7598-07	.5531-01	.1784-01	.5531-01
177	.7595-07	.1785-01	.1785-01	.5527-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF R=1.0	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(TAW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	OTWOT DEG. R /SEC	TW DEG. R
175	.0000	.0000	1.0000	.7796	.6411	.6730	.1390-01	.1143-01	.1200-01	8.199	45.37	557.0
175	.0000	.5000-02	2.0000	.7605	.6237	.6272	.1356-01	.1112-01	.1119-01	7.881	54.27	565.7
175	.0000	.1000-01	3.0000	.5948	.4891	.5033	.1061-01	.8733-02	.9011-02	6.252	41.92	557.4
175	.0000	.2000-01	4.0000	.3973	.3281	.3530	.7086-02	.5851-02	.6278-02	4.279	23.85	542.8
175	.0000	.3000-01	5.0000	.2961	.2448	.2678	.5281-02	.4355-02	.4776-02	3.208	17.91	539.2
175	.0000	.4000-01	6.0000	.2407	.1330	.2205	.4292-02	.3508-02	.3933-02	2.611	14.59	538.3
175	.0000	.5000-01	7.0000	.2329	.1924	.2155	.4154-02	.3432-02	.3843-02	2.514	17.00	541.4
175	.0000	.6000-01	8.0000	.2239	.1833	.2142	.4100-02	.3397-02	.3820-02	2.484	15.83	540.9
175	.0000	.7000-01	9.0000	.1977	.1633	.1855	.3525-02	.2912-02	.3308-02	2.133	14.87	541.7
175	.0000	.8000-01	10.000	.1559	.1297	.1431	.2798-02	.2313-02	.2641-02	1.699	11.86	539.4
175	.0000	.9000-01	11.000	.1478	.1222	.1401	.2636-02	.2160-02	.2438-02	1.607	10.26	537.1
175	.0000	.1000-00	12.000	.1380	.1141	.1313	.2460-02	.2035-02	.2341-02	1.501	9.073	536.5
175	.0000	.12000	14.000	.1175	.9720-01	.1124	.2095-02	.1734-02	.2004-02	1.282	7.172	534.9
175	.0000	.13000	15.000	.1172	.9700-01	.1123	.2091-02	.1730-02	.2003-02	1.276	7.511	536.3
175	.0000	.14000	16.000	.1075	.8900-01	.1032	.1919-02	.1582-02	.1841-02	1.172	7.490	535.9
175	.0000	.15000	18.000	.1097	.9080-01	.1035	.1957-02	.1619-02	.1831-02	1.194	7.420	536.3
175	.0000	.17000	19.000	.1080	.8930-01	.1039	.1925-02	.1593-02	.1853-02	1.174	7.501	536.8

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	*ETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(970) BTU/ R FT2SEC	H(101) BTU/ R FT2SEC	H(14H) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DT/DT DEG. R /SEC	TH DEG. R
175	00000	15000	20.000	1077	8910-01	1038	1921-02	1589-02	1851-02	1.172	7.486	536.8
175	00000	15000	21.000	1001	8280-01	953-01	1785-02	1477-02	1723-02	1.092	6.980	535.2
175	00000	20000	22.000	1006	8320-01	3730-01	1794-02	1464-02	1733-02	1.094	6.989	536.9
175	00000	22000	23.000	9570-01	8000-01	3330-01	1724-02	1426-02	1670-02	1.052	6.724	536.3
175	00000	25000	24.000	9280-01	7590-01	3010-01	1655-02	1369-02	1606-02	1.010	6.457	536.3
175	00000	27000	25.000	8930-01	7090-01	2310-01	1528-02	1264-02	1463-02	0.9320	5.954	536.8
175	00000	29000	26.000	8660-01	7180-01	3430-01	1528-02	1280-02	1502-02	0.9410	6.009	538.7
175	00000	31000	27.000	8550-01	7070-01	3330-01	1525-02	1281-02	1480-02	0.9270	6.088	539.1
175	00000	33000	28.000	8550-01	6940-01	3630-01	1412-02	1167-02	1370-02	0.8560	5.789	540.6
175	00000	35000	29.000	8070-01	6740-01	3770-01	1233-02	1023-02	1202-02	0.7490	5.567	542.3
175	00000	37000	30.000	6410-01	5330-01	3220-01	1144-02	9054-03	1109-02	0.6920	5.140	542.1
175	00000	39000	31.000	6170-01	5100-01	3530-01	1101-02	8054-03	1068-02	0.6650	4.941	542.9
175	00000	41000	32.000	5650-01	4700-01	3230-01	1001-02	8324-03	9777-03	0.6090	4.583	542.4
175	00000	43000	33.000	5550-01	4700-01	3230-01	1001-02	8324-03	9777-03	0.6140	4.561	542.0
175	00000	45000	34.000	5300-01	4200-01	3530-01	1066-02	8777-03	1030-02	0.6430	4.785	541.0
175	00000	47000	35.000	5200-01	4510-01	3710-01	1033-02	8577-03	1018-02	0.6290	4.845	540.2
175	00000	49000	36.000	5180-01	4280-01	3530-01	9238-03	7639-03	9079-03	0.5620	4.053	538.0
175	00000	51000	37.000	4290-01	3550-01	4230-01	7654-03	6332-03	7543-03	0.4670	3.866	536.8
175	00000	53000	38.000	3910-01	3230-01	3530-01	6970-03	5765-03	6865-03	0.4250	3.525	536.2
175	00000	55000	39.000	3630-01	3000-01	3630-01	6475-03	5357-03	6413-03	0.3450	3.274	536.3
175	00000	57000	40.000	3330-01	2830-01	4330-01	7821-03	6481-03	7770-03	0.4820	3.606	530.2
175	00000	59000	41.000	2530-01	2430-01	2330-01	4173-03	3459-03	4146-03	0.2580	1.927	529.5
175	00000	61000	42.000	2310-01	1910-01	2230-01	4113-03	3410-03	4086-03	0.2540	2.037	529.0
175	00000	63000	43.000	2300-01	1910-01	2230-01	4106-03	3405-03	4080-03	0.2540	2.153	528.1
175	00000	65000	44.000	1070-01	8200-02	1070-01	1913-03	1587-03	1913-03	0.1190	0.7200	526.7
175	00000	67000	45.000	1000-01	8300-02	1070-01	1784-03	1480-03	1784-03	0.1110	0.6900	526.8
175	00000	69000	46.000	1790-01	1480-01	1730-01	3188-03	2645-03	3188-03	0.1980	1.202	526.0
175	00000	71000	47.000	8650-01	7150-01	8330-01	1533-02	1275-02	1497-02	0.9330	7.433	542.0
175	00000	73000	48.000	8240-01	6900-01	7930-01	1469-02	1213-02	1425-02	0.8850	7.043	544.2
175	00000	75000	49.000	5760-01	4750-01	6530-01	1027-02	8476-03	9958-03	0.6190	5.515	544.0
175	00000	77000	50.000	6440-01	5320-01	6530-01	1149-02	9463-03	1115-02	0.6930	5.147	543.7
175	00000	79000	51.000	6110-01	5050-01	5930-01	1089-02	8953-03	1057-02	0.6600	4.907	543.9
175	00000	81000	52.000	4530-01	3740-01	4430-01	6074-03	6677-03	7936-03	0.4910	3.923	531.0
175	00000	83000	53.000	2125	1755	2136	3733-02	3133-02	3793-02	0.2289	13.43	541.7
175	00000	85000	54.000	1314	1085	1314	2344-02	1938-02	2344-02	1.423	9.089	537.9
175	00000	87000	55.000	4720-01	3950-01	4730-01	628-03	7056-03	6528-03	0.5210	3.880	536.4
175	00000	89000	56.000	6740-01	5570-01	6740-01	1202-02	9942-03	1202-02	0.7330	5.467	536.5
175	00000	91000	57.000	7410-01	6130-01	7410-01	1321-02	1094-02	1321-02	0.8090	6.040	534.2
175	00000	93000	58.000	2266	2118	2255	4576-02	779-02	4576-02	2.760	15.38	542.1
175	00000	95000	59.000	1130-01	9400-02	1130-01	2012-03	1669-03	2012-03	0.1250	0.7790	526.6
175	00000	97000	60.000	2264	1869	2234	4039-02	3334-02	4039-02	2.431	15.48	543.4
175	00000	99000	61.000	1519	1254	1519	2709-02	2237-02	2709-02	1.634	14.58	542.0

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1804)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(970) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
175	30.000	.92500	970.00	.3040-01	.2520-01	.3040-01	.5422-03	.4491-03	.5422-03	.3330	2.489	532.2
175	30.000	.95000	974.00	.4070-01	.3390-01	.4070-01	.7267-03	.6020-03	.7267-03	.4470	3.339	531.8
175	30.000	.97500	979.00	.3630-01	.3010-01	.3630-01	.6477-03	.5376-03	.6477-03	.4030	3.025	524.0
176	31.500	.20000	108.00	.1016	.9400-01	.1016	.1812-02	.1498-02	.1812-02	1.099	11.15	538.8
175	32.000	.40000	831.00	.1119	.9250-01	.1035	.1995-02	.1649-02	.1935-02	1.210	8.440	540.3
175	32.000	.60000	832.00	.9170-01	.7570-01	.8930-01	.1635-02	.1350-02	.1595-02	.9560	7.083	544.1
175	32.000	.80000	833.00	.7850-01	.6490-01	.7610-01	.1400-02	.1155-02	.1359-02	.8430	5.688	544.6
175	32.000	.90000	834.00	.3650-01	.3020-01	.3540-01	.6517-03	.5379-03	.6320-03	.3930	3.015	544.2
175	32.000	.95000	835.00	.5410-01	.4470-01	.5250-01	.9649-03	.7375-03	.9320-03	.5860	4.217	539.9
175	32.000	.97500	836.00	.4930-01	.4130-01	.4930-01	.8169-03	.6757-03	.8229-03	.4980	3.714	536.6
175	32.000	.99000	837.00	.4320-01	.3500-01	.4320-01	.7754-03	.6424-03	.7681-03	.4770	3.821	531.4
175	32.000	1.01500	838.00	.3280-01	.2700-01	.3110-01	.5807-03	.4615-03	.5553-03	.3550	2.931	528.5
175	32.000	1.03000	839.00	.3350-01	.2780-01	.3350-01	.5978-03	.4957-03	.5716-03	.3700	2.915	527.9
175	32.000	1.04500	840.00	.3230-01	.2660-01	.3230-01	.5750-03	.4777-03	.5508-03	.3570	2.762	527.7
175	32.000	1.06000	841.00	.2930-01	.2450-01	.2830-01	.5221-03	.4330-03	.4993-03	.3230	2.690	527.5
175	32.000	1.07500	842.00	.1599	.1322	.1539	.2853-02	.2358-02	.2853-02	1.728	11.02	539.6
176	35.000	.20000	115.00	.1122	.9260-01	.1122	.001-02	.1652-02	.2001-02	1.208	2.25	541.5
176	35.000	.40000	116.00	.1208	.9390-01	.1208	.2155-02	.1753-02	.2155-02	1.311	8.375	536.9
176	35.000	.60000	121.00	.9050-01	.7490-01	.9050-01	.1615-02	.1336-02	.1615-02	.9860	6.307	534.6
176	35.000	.80000	111.00	.1955	.1613	.1935	.3487-02	.2878-02	.3487-02	2.096	15.55	544.2
176	35.000	.90000	112.00	.1129	.9320-01	.1129	.2014-02	.1663-02	.2014-02	1.214	13.53	542.3
176	35.000	.95000	127.00	.1155	.9550-01	.1155	.2061-02	.1704-02	.2061-02	1.253	8.490	537.1
176	35.000	.97500	117.00	.1098	.9660-01	.1098	.1958-02	.1620-02	.1958-02	1.194	7.030	535.4
175	35.000	.99000	969.00	.2800-02	.2300-02	.2800-02	.5020-04	.4164-04	.5020-04	.3100-01	.2330	526.9
175	35.000	.99500	973.00	.1000-03	.1000-03	.1000-03	.1655-05	.1372-05	.1655-05	.1000-02	.8000-02	527.5
175	35.000	.97500	978.00	.1200-02	.1000-02	.1200-02	.2102-04	.1744-04	.2102-04	.1300-01	.9800-01	526.9
176	51.000	.20000	118.00	.5890-01	.4890-01	.5890-01	.1051-02	.8701-03	.1051-02	.6440	4.125	532.1
176	60.000	.50000	131.00	.4480-01	.3710-01	.4480-01	.7998-03	.6623-03	.7998-03	.4900	3.330	530.7
176	67.500	.20000	123.00	.3420-01	.2830-01	.3420-01	.6093-03	.5048-03	.6093-03	.3740	2.799	527.2
175	75.000	.97500	977.00	.1300-02	.1100-02	.1300-02	.2349-04	.1949-04	.2349-04	.1500-01	.1090	527.1
175	85.000	.97500	976.00	.1900-02	.1600-02	.1900-02	.3410-04	.2828-04	.3410-04	.2100-01	.1580	530.5
176	105.00	.40100	135.00	.2390-01	.1980-01	.2390-01	.4257-03	.3527-03	.4257-03	.2620	2.035	533.6
176	105.00	.50100	136.00	.3680-01	.3040-01	.3680-01	.6561-03	.5431-03	.6561-03	.4010	3.213	533.6
176	105.00	.60100	137.00	.1750-01	.1450-01	.1750-01	.3120-03	.2583-03	.3120-03	.1910	1.531	530.4
176	105.00	.70100	138.00	.9300-02	.8200-02	.9300-02	.1760-03	.1458-03	.1760-03	.1080	.8580	530.4
176	105.00	.80000	139.00	.9300-02	.8200-02	.9300-02	.6979-04	.5787-04	.6979-04	.4300-01	.3470	527.3
176	113.00	.60100	146.00	.3120-01	.2580-01	.3120-01	.5559-03	.4603-03	.5559-03	.3410	2.730	532.2
176	116.00	.60100	147.00	.2470-01	.2050-01	.2470-01	.4407-03	.3649-03	.4407-03	.2700	2.165	532.1
176	116.00	.75100	148.00	.1230-01	.1020-01	.1230-01	.2201-03	.1825-03	.2201-03	1.360	1.090	528.7
176	120.00	.10000	132.00	.1370-01	.1140-01	.1370-01	.2443-03	.2025-03	.2443-03	.1510	.9140	528.7
176	120.00	.60500	247.00	.4370-01	.3520-01	.4370-01	.7793-03	.6461-03	.7793-03	.4810	3.985	523.4
176	120.00	.82500	248.00	.6770-01	.5610-01	.6770-01	.1208-02	.1001-02	.1208-02	.7430	6.155	530.0

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## AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1804)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(970) BTU/ R FT/SEC	H(10) BTU/ R FT/SEC	H(14M) BTU/ R FT/SEC	QDOT BTU/ FT/SEC	DTMDT DEG. R /SEC	TW DEG. R
176	120.00	.86200	249.00	.6050-01	.320-01	.6050-01	.1080-02	.8950-03	.1080-02	.6660	4.891	528.2
176	130.00	.80500	253.00	.4370-01	.3520-01	.4370-01	.7796-03	.6464-03	.7796-03	.8810	3.866	527.9
176	130.00	.82300	254.00	.6130-01	.6130-01	.6130-01	.1103-02	.9143-03	.1103-02	.6800	5.298	528.3
176	130.00	.66200	255.00	.3330-01	.2760-01	.3330-01	.5846-03	.4927-03	.5940-03	.3670	3.050	526.5
176	135.00	.40100	142.00	.1500-02	.1200-02	.1500-02	.2662-04	.2208-04	.2662-04	.1600-01	.1280	527.6
176	135.00	.50100	143.00	.2200-02	.1800-02	.2200-02	.3894-04	.3228-04	.3894-04	.2400-01	.1990	528.7
176	135.00	.60100	141.00	.6500-02	.5400-02	.6530-02	.1163-03	.9637-04	.1163-03	.7200-01	.9580	529.0
176	135.00	.70100	145.00	.4800-02	.4000-02	.4800-02	.6638-04	.7162-04	.6638-04	.5300-01	.4280	529.5
176	140.00	.85100	85.000	.1210-01	.1000-01	.1210-01	.2150-03	.1783-03	.2150-03	.1330	1.027	528.4
176	140.00	.19100	87.000	.9700-02	.8000-02	.9700-02	.1729-03	.1434-03	.1729-03	.1070	.8270	527.5
176	145.00	.80500	259.00	.2480-01	.2060-01	.2480-01	.4428-03	.3674-03	.4428-03	.2740	2.141	525.4
177	145.00	.82300	260.00	.1340-01	.1110-01	.1340-01	.2397-03	.1987-03	.2397-03	.1480	1.118	528.0
177	145.00	.66200	261.00	.6200-02	.6600-02	.6200-02	.1467-03	.1217-03	.1467-03	.5100-01	.7540	525.6
176	150.00	.16000	84.000	.4100-02	.3400-02	.4100-02	.7344-04	.5091-04	.7344-04	.4500-01	.7400	526.9
176	150.00	.18000	84.000	.8700-02	.7200-02	.8700-02	.1552-03	.1287-03	.1552-03	.9600-01	.7190	527.0
176	150.00	.19000	82.000	.2000-03	.2000-03	.2000-03	.4291-05	.3550-05	.4291-05	.3000-02	.2000-01	535.4
176	155.00	.16000	80.000	.5400-02	.4500-02	.5400-02	.9677-04	.8025-04	.9677-04	.6000-01	.4480	526.8
176	155.00	.18000	83.000	.8000-03	.7000-03	.8000-03	.1421-04	.1175-04	.1421-04	.9000-02	.6500-01	535.5
176	160.00	.16000	77.000	.9400-02	.7800-02	.9400-02	.1677-03	.1390-03	.1677-03	.1030	.8290	528.5
176	160.00	.15000	81.000	.8200-02	.6800-02	.8200-02	.1454-03	.1214-03	.1454-03	.9000-01	.6550	527.7
176	175.00	.16500	79.000	.9100-02	.7600-02	.9100-02	.1632-03	.1353-03	.1632-03	.1010	.7550	527.6
176	175.00	.17500	78.000	.1680-01	.1380-01	.1680-01	.2970-03	.2462-03	.2970-03	.1830	1.328	528.0
175	180.00	.1000-01	59.000	.1874	.1549	.1874	.3342-02	.2763-02	.3342-02	2.031	15.12	538.9
175	180.00	.2600-01	60.000	.5370-01	.4450-01	.5370-01	.9581-03	.7938-03	.9581-03	.5900	4.265	531.2
175	180.00	.5000-01	61.000	.2600-01	.2130-01	.2600-01	.4634-03	.3641-03	.4634-03	.2860	1.835	529.3
175	180.00	.7500-01	62.000	.1370-01	.1140-01	.1370-01	.2446-03	.2028-03	.2446-03	.1510	.9700	528.3
175	180.00	.1000+00	63.000	.9400-02	.7800-02	.9400-02	.1673-03	.1388-03	.1673-03	.1040	.6840	527.9
175	180.00	.64.000	64.000	.8400-02	.6900-02	.8400-02	.1491-03	.1237-03	.1491-03	.9200-01	.6480	527.5
175	180.00	.12500	65.000	.7900-02	.6500-02	.7900-02	.1409-03	.1169-03	.1409-03	.8700-01	.6130	527.2
175	180.00	.15000	66.000	.1310-01	.1090-01	.1310-01	.2345-03	.1945-03	.2345-03	.1450	.8150	528.0
175	180.00	.17000	67.000	.3760-01	.3120-01	.3760-01	.6707-03	.5560-03	.6707-03	.4150	2.327	527.8
175	180.00	.20000	69.000	.1220-01	.1010-01	.1220-01	.2170-03	.1799-03	.2170-03	.1340	.8380	527.6
175	180.00	.40100	72.000	.4700-02	.3900-02	.4700-02	.8371-04	.6942-04	.8371-04	.5200-01	.4440	527.6
175	180.00	.50000	73.000	.4600-02	.3800-02	.4600-02	.8135-04	.6746-04	.8135-04	.5000-01	.4310	528.1
175	180.00	.50100	74.000	.5600-02	.4700-02	.5600-02	.1002-03	.8312-04	.1002-03	.6200-01	.5150	527.6
175	180.00	.70100	75.000	.5000-02	.4100-02	.5000-02	.8879-04	.7365-04	.8879-04	.5500-01	.4420	526.9

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

FUSELAGE

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

FUSELAGE

PARAMETRIC DATA

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
149	7.940	1.024	30.06	2.000	202.0	211.1	.2300-01	1267.	93.13	1.002	3754.	.2046-04
149	7.940	1.038	30.09	2.000	202.0	211.6	.2300-01	1258.	92.40	1.004	3740.	.2066-04
150	7.940	1.055	30.09	2.000	202.0	213.9	.2300-01	1253.	92.10	1.015	3734.	.2095-04

\*\*\*TEST CONDITIONS\*\*\*

ALPHA = 30.00  
BDFLAP = .0000

BETA = -2.000  
MACH = 8.000

ELEVTR = .0000

SPDBRK = .0000

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
148	.00000	.00000	1.0000	.7654	.6252	.6574	.1873-01	.1530-01	.1609-01	10.59	58.05	575.2
148	.00000	.50000-02	2.0000	.7479	.6086	.6121	.1830-01	.1489-01	.1498-01	10.13	69.00	587.1
148	.00000	1.0000-01	3.0000	.6392	.5219	.5337	.1554-01	.1277-01	.1321-01	8.827	58.65	575.9
149	.00000	.20000-01	4.0000	.4023	.3306	.3553	.9845-02	.8089-02	.8695-02	5.745	31.79	556.9
148	.00000	.30000-01	5.0000	.2968	.2442	.2677	.7264-02	.5976-02	.6552-02	4.273	23.70	552.0
148	.00000	.40000-01	6.0000	.2424	.1936	.2217	.5931-02	.4895-02	.5425-02	3.509	13.50	548.8
148	.00000	.50000-01	7.0000	.2236	.1839	.2004	.5472-02	.4498-02	.5052-02	3.202	21.49	555.2
148	.00000	.60000-01	8.0000	.2285	.1830	.2126	.5532-02	.4601-02	.5202-02	3.288	20.24	552.5
148	.00000	.70000-01	9.0000	.1886	.1551	.1768	.4617-02	.3702-02	.4326-02	2.707	18.75	554.0
148	.00000	.80000-01	10.0000	.1541	.1268	.1432	.3771-02	.3102-02	.3554-02	2.216	15.37	552.5
148	.00000	.90000-01	11.0000	.1473	.1213	.1394	.3605-02	.2939-02	.3412-02	2.129	13.51	549.7
148	.00000	1.0000-00	12.0000	.1295	.1067	.1231	.3170-02	.2610-02	.3012-02	1.873	11.25	549.3
148	.00000	.12000	14.0000	.1507	.1241	.1440	.3687-02	.3038-02	.3523-02	2.186	12.16	548.3
148	.00000	.13000	15.0000	.1128	.9230-01	.1030	.2761-02	.2275-02	.2643-02	1.635	9.564	547.7
148	.00000	.14000	16.0000	.1039	.8550-01	.9350-01	.2541-02	.2003-02	.2435-02	1.506	9.567	548.5
148	.00000	.15000	18.0000	.1103	.9020-01	.1039	.2593-02	.2223-02	.2522-02	1.597	9.853	548.5
148	.00000	.17000	19.0000	.1061	.8740-01	.1030	.2596-02	.2238-02	.2497-02	1.535	9.745	549.1

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OH-49B (AEDC V41B-57A) CRBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO) BTU/ R FI2SEC	H1TO) BTU/ R FI2SEC	H1TAW) BTU/ R FI2SEC	QOOT BTU/ FI2SEC	DTMDT DEG. R /SEC	TW DEG. R
148	.00000	.18000	20.000	.1094	.9010-01	.1033	.2676-02	.2204-02	.2576-02	1.582	10.04	549.3
148	.00000	.19000	21.000	.9700-01	.7990-01	.9350-01	.2374-02	.1956-02	.2289-02	1.406	8.933	548.1
148	.00000	.20000	22.000	.9910-01	.8160-01	.9530-01	.2425-02	.1997-02	.2340-02	1.433	9.100	548.2
148	.00000	.22500	23.000	.9210-01	.7590-01	.8910-01	.2254-02	.1856-02	.2181-02	1.334	8.470	548.6
148	.00000	.25000	24.000	.8700-01	.7160-01	.8430-01	.2128-02	.1753-02	.2063-02	1.259	7.999	548.6
148	.00000	.30000	26.000	.8350-01	.6880-01	.8170-01	.2045-02	.1683-02	.1982-02	1.207	7.662	548.9
149	.00000	.35000	28.000	.8350-01	.6880-01	.8170-01	.2045-02	.1683-02	.1982-02	1.206	7.647	551.1
148	.00000	.40000	30.000	.8460-01	.6950-01	.8270-01	.2070-02	.1703-02	.2006-02	1.218	7.949	551.9
148	.00000	.45000	32.000	.7630-01	.6440-01	.7530-01	.1916-02	.1576-02	.1858-02	1.126	7.567	552.9
148	.00000	.50000	35.000	.7100-01	.5840-01	.6830-01	.1737-02	.1429-02	.1684-02	1.020	7.065	553.4
148	.00000	.55000	38.000	.6790-01	.5530-01	.6530-01	.1563-02	.1367-02	.1611-02	.9730	7.186	555.1
148	.00000	.60000	40.000	.6120-01	.5030-01	.5910-01	.1433-02	.1232-02	.1453-02	.8770	6.480	554.9
148	.00000	.65000	43.000	.5860-01	.4820-01	.5530-01	.1435-02	.1179-02	.1391-02	.8390	6.190	556.0
148	.00000	.70000	46.000	.5670-01	.4650-01	.5330-01	.1368-02	.1141-02	.1345-02	.8110	6.194	555.6
148	.00000	.75000	49.000	.5450-01	.4480-01	.5130-01	.1333-02	.1066-02	.1282-02	.7800	6.257	555.0
148	.00000	.80000	51.000	.5200-01	.4280-01	.4930-01	.1248-02	.1054-02	.1243-02	.7470	6.101	551.6
148	.00000	.85000	53.000	.5000-01	.4080-01	.4730-01	.1202-02	.1024-02	.1203-02	.7080	5.503	551.6
148	.00000	.90000	55.000	.4800-01	.3880-01	.4530-01	.1166-02	.1004-02	.1183-02	.6700	5.197	550.1
148	.00000	.95000	57.000	.4600-01	.3680-01	.4330-01	.1130-02	.0974-02	.1154-02	.6320	4.686	549.8
148	.00000	.10150	59.000	.4400-01	.3480-01	.4130-01	.1094-02	.0944-02	.1114-02	.5940	4.318	550.2
148	.00000	.10300	61.000	.4200-01	.3280-01	.3930-01	.1058-02	.0904-02	.1074-02	.5560	4.318	544.8
148	.00000	.10450	63.000	.4000-01	.3080-01	.3730-01	.1022-02	.0854-02	.1044-02	.5180	2.325	544.8
148	.00000	.10600	65.000	.3800-01	.2880-01	.3530-01	.0986-02	.0804-02	.1006-02	.4800	2.383	544.3
148	.00000	.10750	67.000	.3600-01	.2680-01	.3330-01	.0949-02	.0754-02	.0966-02	.4420	1.897	544.7
148	.00000	.10900	69.000	.3400-01	.2480-01	.3130-01	.0912-02	.0714-02	.0928-02	.4040	.7790	539.1
148	.00000	.11050	71.000	.3200-01	.2280-01	.2930-01	.0875-02	.0674-02	.0890-02	.3660	.9920	539.6
148	.00000	.11200	73.000	.3000-01	.2080-01	.2730-01	.0838-02	.0634-02	.0848-02	.3280	.2430	538.3
148	.00000	.11350	75.000	.2800-01	.1880-01	.2530-01	.0801-02	.0594-02	.0816-02	.2900	9.506	555.1
148	.00000	.11500	77.000	.2600-01	.1680-01	.2330-01	.0764-02	.0554-02	.0776-02	.2520	9.305	556.5
148	.00000	.11650	79.000	.2400-01	.1480-01	.2130-01	.0727-02	.0514-02	.0738-02	.2140	6.792	556.8
148	.00000	.11800	81.000	.2200-01	.1280-01	.1930-01	.0690-02	.0474-02	.0700-02	.1760	6.703	556.2
148	.00000	.11950	83.000	.2000-01	.1080-01	.1730-01	.0653-02	.0434-02	.0662-02	.1380	6.337	554.8
148	.00000	.12100	85.000	.1800-01	.0880-01	.1530-01	.0616-02	.0394-02	.0625-02	.1000	5.345	551.2
149	.00000	.12250	87.000	.1600-01	.0680-01	.1330-01	.0579-02	.0354-02	.0586-02	.0620	17.80	550.8
149	.00000	.12400	89.000	.1400-01	.0480-01	.1130-01	.0542-02	.0314-02	.0549-02	.0240	11.79	548.9
148	.00000	.12550	91.000	.1200-01	.0280-01	.0930-01	.0505-02	.0274-02	.0512-02	.0160	7.908	556.2
148	.00000	.12700	93.000	.1000-01	.0080-01	.0730-01	.0468-02	.0234-02	.0475-02	.0170	9.684	553.9
148	.00000	.12850	95.000	.0800-01	.0080-01	.0530-01	.0431-02	.0194-02	.0436-02	.0180	10.26	551.8
149	.00000	.13000	97.000	.0600-01	.0080-01	.0330-01	.0394-02	.0154-02	.0399-02	.0170	20.35	549.7
148	.00000	.13150	99.000	.0400-01	.0080-01	.0130-01	.0357-02	.0114-02	.0362-02	.0160	.8250	539.2
148	.00000	.13300	101.000	.0200-01	.0080-01	.0030-01	.0320-02	.0074-02	.0325-02	.0130	20.51	552.8
149	.00000	.13450	103.000	.0000-01	.0080-01	.0030-01	.0283-02	.0034-02	.0288-02	.0120	18.86	553.0



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OH-49B (AEDC V41B-57A) ORBITER: FUSELAGE

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(GTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	ODHOT DEG. R /SEC	TW DEG. R
148	30.000	.92500	970.00	.6160-01	.5070-01	.6160-01	.1508-02	.1242-02	.1508-02	.8900	6.588	550.3
148	30.000	.95000	974.00	.7190-01	.5920-01	.7190-01	.1760-02	.1448-02	.1760-02	1.037	7.676	550.9
149	30.000	.97500	979.00	.4590-01	.3780-01	.4590-01	.1122-02	.0258-02	.1122-02	.6700	4.582	542.8
149	31.500	.20000	108.00	.1029	.8460-01	.1029	.2519-02	.2070-02	.2519-02	1.460	14.72	552.3
148	32.000	.40000	87.00	.1115	.9170-01	.1081	.2729-02	.2244-02	.2645-02	1.600	11.09	553.9
149	32.000	.50000	87.00	.9350-01	.7850-01	.9250-01	.2337-02	.1920-02	.2254-02	1.364	9.739	556.7
148	32.000	.60000	833.00	.7040-01	.6440-01	.7600-01	.1919-02	.1576-02	.1920-02	1.118	7.498	557.7
148	32.000	.70000	834.00	.6450-01	.5300-01	.6250-01	.1573-02	.1297-02	.1523-02	.9220	7.035	556.3
148	32.000	.80000	835.00	.5430-01	.4470-01	.5270-01	.1323-02	.1033-02	.1269-02	.7800	5.575	553.8
148	32.000	.90000	835.00	.4430-01	.3300-01	.4650-01	.1158-02	.0932-02	.1138-02	.6830	5.035	550.5
148	32.000	.95000	837.00	.3460-01	.2400-01	.3300-01	.1337-02	.1130-02	.1320-02	.5490	4.047	549.7
148	32.000	.97500	839.00	.2430-01	.1430-01	.2270-01	.1072-02	.0771	.1289-02	.4120	3.120	549.3
148	32.000	1.01500	839.00	.1430-01	.0430-01	.1230-01	.0938-02	.0635-02	.1033-02	.3320	3.501	545.0
148	32.000	1.03000	841.00	.0430-01	.2540-01	.3050-01	.7223-03	.5938-03	.7459-03	.4650	3.644	544.2
148	32.000	1.04500	841.00	.3770-01	.3110-01	.3650-01	.7223-03	.6450-03	.7459-03	.4650	3.644	544.2
148	32.000	1.05000	842.00	.2590-01	.2460-01	.2650-01	.7311-03	.6030-03	.6981-03	.3360	3.559	543.7
149	35.000	.50000-01	115.00	.1506	.1321	.1606	.3930-02	.3233-02	.3930-02	2.293	14.56	548.5
149	35.000	.20000	116.00	.1127	.9250-01	.1127	.2751-02	.2263-02	.2751-02	1.592	15.98	556.0
149	39.000	.10000+00	116.00	.1241	.1021	.1241	.3033-02	.2493-02	.3033-02	1.776	11.29	547.0
149	40.000	.75000-01	121.00	.8910-01	.7370-01	.8910-01	.2180-02	.1795-02	.2180-02	1.281	8.157	543.9
149	40.000	.15000	111.00	.1915	.1572	.1915	.4686-02	.3946-02	.4686-02	2.638	19.51	555.1
149	40.000	.20000	112.00	.1129	.9350-01	.1129	.2761-02	.2267-02	.2761-02	1.592	17.63	555.4
149	42.500	.50000-01	127.00	.1150	.9470-01	.1150	.2814-02	.2317-02	.2814-02	1.649	11.12	546.0
148	45.000	.15000	117.00	.1054	.8690-01	.1054	.2580-02	.2124-02	.2580-02	1.511	8.851	546.1
148	45.000	.92500	959.00	.8700-02	.7200-02	.8700-02	.3533-05	.3007-05	.3533-05	.2000-02	.1600-01	537.6
148	45.000	.95000	973.00	.1000-03	.1000-03	.1000-03	.1107-04	.0915-05	.1107-04	.7000-02	.5000-01	537.3
149	51.000	.20000	118.00	.5610-01	.4620-01	.5610-01	.1372-02	.1130-02	.1372-02	.8050	5.130	544.2
149	60.000	.50000-01	131.00	.4200-01	.3450-01	.4200-01	.1028-02	.0847-03	.1028-02	.6080	4.112	540.4
149	67.500	.20000	128.00	.3470-01	.2650-01	.3470-01	.0846-03	.0700-03	.0846-03	.5000	3.714	543.5
148	75.000	.97500	977.00	.2000-03	.2000-03	.2000-03	.5847-05	.4831-05	.5847-05	.4000-02	.2500-01	537.3
148	85.000	.97500	975.00	.2300-02	.1900-02	.2300-02	.5535-04	.4624-04	.5535-04	.3400-01	.2510	537.6
149	105.00	.40100	135.00	.2410-01	.1930-01	.2410-01	.5906-03	.4852-03	.5906-03	.3490	2.624	543.1
149	105.00	.50100	132.00	.4450-01	.3500-01	.4450-01	.1091-02	.0832-03	.1091-02	.6390	5.080	544.9
149	105.00	.60100	138.00	.1110-01	.1920-01	.1110-01	.5707-03	.4700-03	.5707-03	.3350	2.666	544.4
149	105.00	.70100	138.00	.1110-01	.1920-01	.1110-01	.2714-03	.2237-03	.2714-03	.1600	1.275	541.9
149	105.00	.80100	139.00	.4200-02	.3800-02	.4200-02	.1124-03	.0916-03	.1124-03	.6700-01	.5310	539.4
149	113.00	.60100	145.00	.4200-01	.3350-01	.4200-01	.9376-03	.8216-03	.9376-03	.5860	4.657	544.8
149	116.00	.60100	147.00	.3400-01	.2600-01	.3400-01	.8308-03	.6841-03	.8308-03	.4870	3.874	545.3
149	116.00	.75100	148.00	.1360-01	.1120-01	.1360-01	.3321-03	.2737-03	.3321-03	.1950	1.561	541.7
149	120.00	.10000+00	132.00	.1210-01	.1000-01	.1210-01	.2371-03	.2450-03	.2371-03	.1760	1.622	539.5
149	120.00	.80100	247.00	.1210-01	.4730-01	.1210-01	.1406-02	.1153-02	.1406-02	.8260	6.785	544.1
149	120.00	.82500	248.00	.5230-01	.7100-01	.5230-01	.2111-02	.1738-02	.2111-02	1.237	10.14	546.0

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OH-49B (AFDC V41B-57A) ORBITER: FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(OTO) BTU/ R FT2SEC	H(ATAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEC. R /SEC	TH DEC. R
149	120.00	.86200	249.00	.7890-01	.6500-01	.7890-01	.1930-02	.1930-02	1.136	8.254	543.3
149	130.00	.80500	253.00	.6420-01	.5290-01	.6420-01	.1572-02	.1572-02	.9240	7.347	544.2
149	130.00	.82900	254.00	.6630-01	.5460-01	.6630-01	.1622-02	.1622-02	.9550	7.372	543.0
149	130.00	.85200	255.00	.2920-01	.2410-01	.2920-01	.7153-03	.7153-03	.4240	3.494	538.9
149	135.00	.40100	142.00	.1500-02	.1200-02	.1500-02	.3697-04	.3697-04	.2600-01	.1690	539.5
149	135.00	.50100	143.00	.3900-02	.2400-02	.3900-02	.7233-04	.7233-04	.4300-01	.3520	540.1
149	135.00	.60100	144.00	.4900-02	.4100-02	.4900-02	.1209-03	.1209-03	.7200-01	.5540	539.4
149	135.00	.70100	145.00	.5900-02	.4100-02	.5900-02	.1135-03	.1135-03	.6700-01	.5370	539.4
149	140.00	.18000	85.000	.5000-02	.4100-02	.5000-02	.1213-03	.1213-03	.7200-01	.5510	541.3
149	140.00	.19500	87.000	.7800-02	.6400-02	.7800-02	.1901-03	.1901-03	.1120	.8660	540.1
149	145.00	.20500	259.00	.4000-01	.3300-01	.4000-01	.9781-03	.9781-03	.5790	4.475	540.2
150	145.00	.82900	260.00	.2350-01	.1930-01	.2350-01	.5767-03	.5767-03	.3400	2.552	538.9
150	145.00	.86200	261.00	.7400-02	.6100-02	.7400-02	.1815-03	.1815-03	.1070	.8880	533.4
149	150.00	.15000	86.000	.4200-02	.3500-02	.4200-02	.1030-03	.1030-03	.6100-01	.4540	539.7
149	150.00	.18000	84.000	.6100-02	.5000-02	.6100-02	.1930-03	.1930-03	.1180	.8760	540.1
149	155.00	.16000	80.000	.4600-02	.3300-02	.4600-02	.1115-03	.1115-03	.6800-01	.4920	539.6
149	160.00	.18000	77.000	.1480-01	.1220-01	.1480-01	.3615-03	.3615-03	.2130	1.701	541.4
149	175.00	.16500	81.000	.9100-02	.7500-02	.9100-02	.1833-03	.1833-03	.1310	.9460	540.6
149	175.00	.17500	79.000	.9100-02	.7500-02	.9100-02	.2224-03	.2224-03	.1310	.9780	540.8
148	180.00	.10000-01	73.000	.1750-01	.1440-01	.1750-01	.4271-03	.4271-03	.2520	1.815	541.4
148	180.00	.25000-01	59.000	.1822	.1500	.1822	.4458-02	.4458-02	2.635	19.52	549.2
148	180.00	.50000-01	60.000	.5130-01	.4630-01	.5130-01	.1271-02	.1271-02	.7610	5.477	541.4
148	180.00	.75000-01	61.000	.2320-01	.1920-01	.2320-01	.5672-03	.5672-03	.3410	2.178	539.3
148	180.00	.10000-00	62.000	.1190-01	.5900-02	.1190-01	.2912-03	.2912-03	.1750	1.117	539.2
148	180.00	.12500	63.000	.9400-02	.7700-02	.9400-02	.1833-03	.1833-03	.1390	.9040	539.5
148	180.00	.15000	64.000	.8200-02	.6700-02	.8200-02	.1956-03	.1956-03	.1200	.8350	539.7
148	180.00	.15000	65.000	.7800-02	.6400-02	.7800-02	.1899-03	.1899-03	.1140	.7970	539.3
148	180.00	.16000	66.000	.1600-01	.1320-01	.1600-01	.3914-03	.3914-03	.2350	1.311	540.1
148	180.00	.17000	67.000	.4200-01	.3460-01	.4200-01	.8473-03	.8473-03	.6140	3.422	542.5
148	180.00	.20000	69.000	.1320-01	.1090-01	.1320-01	.3233-03	.3233-03	.1550	1.206	539.8
148	180.00	.40100	72.000	.5900-02	.4900-02	.5900-02	.1449-03	.1449-03	.8700-01	.7410	539.6
148	180.00	.50000	73.000	.7000-02	.5500-02	.7000-02	.1714-03	.1714-03	.1030	.8760	539.6
148	180.00	.60100	74.000	.6700-02	.5500-02	.6700-02	.1636-03	.1636-03	.9800-01	.8100	539.1
148	180.00	.70100	75.000	.7600-02	.6300-02	.7600-02	.1862-03	.1862-03	.1120	.8940	38.5

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FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = -2.000 ELEVTR = .0000 SPDRK = .0000  
 BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	PHO SLUGS /FT3
94	7.980	2.012	30.07	2.000	202.0	429.7	4500-01	1286.	93.60	1.994	3784.	.4008-04
95	7.980	2.009	30.09	2.000	202.0	431.0	4500-01	1290.	93.90	2.000	3789.	.4009-04
96	7.980	2.020	30.07	2.000	202.0	434.1	4500-01	1291.	94.00	2.014	3791.	.4033-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
94	7539-07	.3462-01	0.0175
95	7560-07	.3468-01	.2875-01
96	7569-07	.3482-01	.2868-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
94	.00000	.00000	1.0000	.7644	.6232	.6555	2646-01	.2157-01	.2269-01	15.01	81.72	590.1
94	.00000	.50000-02	2.0000	.7482	.6065	.6100	2590-01	.2099-01	.2113-01	14.25	96.15	607.2
94	.00000	.10000-01	3.0000	.6130	.4994	.5167	2122-01	.1729-01	.1733-01	12.00	79.12	591.9
94	.00000	.20000-01	4.0000	.3934	.3233	.3474	1362-01	.1119-01	.1203-01	8.074	44.51	564.5
94	.00000	.30000-01	5.0000	.2883	.2374	.2601	9979-02	.8217-02	.9004-02	5.988	33.12	557.5
94	.00000	.40000-01	6.0000	.2374	.1958	.2173	8219-02	.6718-02	.7521-02	4.971	27.56	552.7
94	.00000	.50000-01	7.0000	.2219	.1825	.2048	7690-02	.6317-02	.7090-02	4.578	30.63	561.5
94	.00000	.60000-01	8.0000	.2242	.1846	.2086	7761-02	.6391-02	.7222-02	4.657	29.44	557.5
94	.00000	.70000-01	9.0000	.1545	.1601	.1823	6732-02	.5510-02	.6309-02	4.026	27.81	559.4
94	.00000	.80000-01	10.000	.1534	.1264	.1447	5310-02	.4377-02	.5006-02	3.201	22.17	554.7
94	.00000	.90000-01	11.000	.1452	.1198	.1375	5027-02	.4118-02	.4761-02	3.050	19.35	550.8
94	.00000	.10000-00	12.000	.1342	.1108	.1276	4647-02	.3834-02	.4416-02	2.822	15.94	550.2
94	.00000	.12000	14.000	.1248	.1031	.1193	4320-02	.3568-02	.4130-02	2.636	14.66	547.3
94	.00000	.13000	15.000	.1133	.9350-01	.1085	3922-02	.3237-02	.3755-02	2.384	13.94	549.5
94	.00000	.14000	16.000	.1040	.8580-01	.9970-01	3598-02	.2971-02	.3451-02	2.191	13.91	548.8
94	.00000	.15000	18.000	.1059	.8330-01	.1028	3702-02	.3355-02	.3557-02	2.250	13.89	549.2
94	.00000	.16000	18.000	.1059	.8330-01	.1028	3702-02	.3355-02	.3557-02	2.250	13.89	549.2
94	.00000	.17000	19.000	.1079	.8310-01	.1039	3736-02	.3083-02	.3595-02	2.259	14.39	550.4

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(RV1804)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTHOT DEG. R /SEC	TW DEG. R
94	.00000	.18000	20.000	.1072	.8850-01	.1033	.3712-02	.3063-02	.3575-02	2.252	14.29	550.8
94	.00000	.19000	21.000	.1043	.8610-01	.1006	.3611-02	.2982-02	.3483-02	2.200	13.97	548.3
94	.00000	.20000	22.000	.1035	.8500-01	.1000+00	.3584-02	.2958-02	.3461-02	2.178	13.82	548.9
94	.00000	.22500	23.000	.9440-01	.7790-01	.9140-01	.3267-02	.2698-02	.3163-02	1.992	12.65	548.0
94	.00000	.25000	801.00	.9360-01	.7730-01	.9080-01	.3240-02	.2675-02	.3142-02	1.975	12.55	547.8
94	.00000	.30000	802.00	.8800-01	.7270-01	.8540-01	.3047-02	.2516-02	.2956-02	1.857	11.80	548.0
94	.00000	.35000	803.00	.8940-01	.7390-01	.8670-01	.3095-02	.2553-02	.3001-02	1.877	11.91	551.0
94	.00000	.40000	804.00	.8770-01	.7230-01	.8500-01	.3034-02	.2503-02	.2943-02	1.839	12.01	551.4
94	.00000	.45000	805.00	.8190-01	.6750-01	.7940-01	.2835-02	.2338-02	.2749-02	1.715	11.53	552.5
94	.00000	.50000	806.00	.7230-01	.5960-01	.7010-01	.2504-02	.2054-02	.2428-02	1.512	10.48	553.5
94	.00000	.55000	807.00	.6790-01	.5600-01	.6592-01	.2352-02	.1938-02	.2280-02	1.416	10.46	555.4
94	.00000	.60000	808.00	.6230-01	.5130-01	.6050-01	.2164-02	.1783-02	.2098-02	1.303	9.621	555.4
94	.00000	.65000	809.00	.5960-01	.4910-01	.5780-01	.2063-02	.1699-02	.2000-02	1.239	9.145	555.7
94	.00000	.70000	810.00	.5320-01	.4870-01	.5740-01	.2046-02	.1687-02	.1936-02	1.231	9.396	556.7
94	.00000	.75000	811.00	.6450-01	.5320-01	.6260-01	.2234-02	.1841-02	.2165-02	1.345	9.928	555.6
94	.00000	.80000	812.00	.6950-01	.5730-01	.6740-01	.2406-02	.2032-02	.2333-02	1.450	10.71	554.8
94	.00000	.85000	813.00	.7120-01	.5720-01	.6810-01	.2393-02	.1931-02	.2357-02	1.462	10.49	548.0
94	.00000	.90000	814.00	.6930-01	.5720-01	.6810-01	.2393-02	.1931-02	.2357-02	1.462	10.49	548.0
94	.00000	.95000	815.00	.5510-01	.4540-01	.5530-01	.1942-02	.1609-02	.1913-02	1.190	9.814	544.8
94	.00000	.97500	816.00	.5520-01	.4650-01	.5550-01	.1946-02	.1609-02	.1922-02	1.194	9.853	543.9
94	.00000	1.0150	817.00	.5820-01	.4810-01	.5770-01	.2015-02	.1666-02	.1996-02	1.237	10.21	543.4
94	.00000	1.0300	818.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.0450	819.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.0600	820.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.0750	821.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.0900	822.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.1050	823.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.1200	824.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.1350	825.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.1500	826.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.1650	827.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.1800	828.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.1950	829.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.2100	830.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.2250	831.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.2400	832.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.2550	833.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.2700	834.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.2850	835.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.3000	836.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.3150	837.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.3300	838.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.3450	839.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.3600	840.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.3750	841.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.3900	842.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.4050	843.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.4200	844.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.4350	845.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.4500	846.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.4650	847.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.4800	848.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.4950	849.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.5100	850.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.5250	851.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.5400	852.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.5550	853.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.5700	854.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.5850	855.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.6000	856.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.6150	857.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.6300	858.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.6450	859.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.6600	860.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.6750	861.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.6900	862.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.7050	863.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.7200	864.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.7350	865.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.7500	866.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.7650	867.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.7800	868.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.7950	869.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.8100	870.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.8250	871.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.8400	872.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.8550	873.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.8700	874.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.8850	875.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.9000	876.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.9150	877.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000	1.9300	878.00	.3950-01	.3280-01	.3930-01	.1368-02	.1135-02	.1359-02	.8570	6.404	531.2
94	.00000	1.9450	879.00	.3750-01	.3110-01	.3720-01	.1297-02	.1077-02	.1289-02	.8140	6.523	530.0
94	.00000											



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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
95	120.00	.86200	249.00	.8650-01	.7190-01	.8650-01	.3003-02	.2490-02	.3003-02	1.878	13.73	535.6
95	130.00	.80500	253.00	.1224	.1013	.1224	.4245-02	.2490-02	.4245-02	2.634	21.00	540.3
95	130.00	.82900	254.00	.8300-01	.6980-01	.8300-01	.2878-02	.2396-02	.2878-02	1.799	13.95	535.9
95	130.00	.86200	255.00	.2210-01	.1840-01	.2210-01	.7672-03	.6373-03	.7672-03	4.660	4.029	527.6
95	135.00	.40100	142.00	.1400-02	.1100-02	.1400-02	.4746-04	.3946-04	.4746-04	.3000-01	.2360	524.9
95	135.00	.50100	143.00	.2200-02	.1900-02	.2200-02	.7720-04	.6417-04	.7720-04	.4900-01	.4070	525.4
95	135.00	.60100	144.00	.3200-02	.2800-02	.3200-02	.1104-03	.9173-04	.1104-03	.7000-01	.5470	525.4
95	140.00	.70100	145.00	.4200-02	.3800-02	.4200-02	.1694-03	.1403-03	.1694-03	.1070	.8600	526.1
95	140.00	.80100	146.00	.5200-02	.4800-02	.5200-02	.2459-03	.2049-03	.2459-03	.2630	2.040	527.5
95	145.00	.90100	147.00	.6200-02	.5800-02	.6200-02	.3455-03	.3455-03	.3455-03	.1560	1.210	527.4
95	145.00	.95000	148.00	.7200-02	.6800-02	.7200-02	.2467-03	.2049-03	.2467-03	.1560	9.103	531.0
95	145.00	.99900	149.00	.8200-02	.7800-02	.8200-02	.1694-03	.1543-02	.1694-03	4.117	4.117	526.3
95	150.00	.16000	85.000	.4450-01	.2040-01	.4450-01	.1853-02	.1543-02	.1853-02	.1400	1.165	523.8
95	150.00	.18000	86.000	.5450-01	.3040-01	.5450-01	.2195-03	.1815-03	.2195-03	.1400	1.165	523.8
95	150.00	.20000	87.000	.6450-01	.4040-01	.6450-01	.1453-03	.1215-03	.1453-03	.9400-01	1.760	527.4
95	150.00	.22000	88.000	.7450-01	.5040-01	.7450-01	.2335-03	.2000-03	.2335-03	.2050	1.533	528.0
95	150.00	.24000	89.000	.8450-01	.6040-01	.8450-01	.3335-03	.2832-05	.3335-03	.6000-02	4.700-01	531.5
95	150.00	.26000	90.000	.9450-01	.7040-01	.9450-01	.4335-03	.3930-03	.4335-03	.8000-01	.6000	527.2
95	155.00	.15000	80.000	.1300-01	.1130-01	.1300-01	.4732-03	.3930-03	.4732-03	.2390	2.395	529.2
95	155.00	.17000	81.000	.2300-01	.2130-01	.2300-01	.3587-03	.3052-03	.3587-03	.2330	1.697	529.0
95	155.00	.19000	82.000	.3300-01	.3130-01	.3300-01	.2766-03	.2652-03	.2766-03	.2110	1.575	528.7
95	155.00	.21000	83.000	.4300-01	.4130-01	.4300-01	.5677-03	.5077-03	.5677-03	.3120	3.120	530.4
95	155.00	.23000	84.000	.5300-01	.5130-01	.5300-01	.6155-02	.5100-02	.6155-02	3.742	27.67	552.6
95	155.00	.25000	85.000	.6300-01	.6130-01	.6300-01	.1725-02	.1428-02	.1725-02	7.654	7.654	540.5
95	155.00	.27000	86.000	.7300-01	.7130-01	.7300-01	.7510-03	.6223-03	.7510-03	.4570	2.985	535.7
95	155.00	.29000	87.000	.8300-01	.8130-01	.8300-01	.4013-03	.3327-03	.4013-03	.2500	1.602	533.7
95	155.00	.31000	88.000	.9300-01	.9130-01	.9300-01	.2522-03	.2327-03	.2522-03	.1500	1.253	532.5
95	155.00	.33000	89.000	.1000-02	.0800-02	.1000-02	.3041-03	.2522-03	.3041-03	.1500	1.253	532.5
95	155.00	.35000	90.000	.2000-02	.1800-02	.2000-02	.2542-03	.2440-03	.2542-03	.1840	1.290	531.6
95	155.00	.37000	91.000	.3000-02	.2800-02	.3000-02	.3030-03	.2554-03	.3030-03	.1940	1.359	530.4
95	155.00	.39000	92.000	.4000-02	.3800-02	.4000-02	.7873-03	.6532-03	.7873-03	.4930	2.764	531.2
95	155.00	.41000	93.000	.5000-02	.4800-02	.5000-02	.1409-02	.1409-02	.1409-02	5.919	5.919	535.0
95	155.00	.43000	94.000	.6000-02	.5800-02	.6000-02	.4524-03	.4524-03	.4524-03	2.124	2.124	529.5
95	155.00	.45000	95.000	.7000-02	.6800-02	.7000-02	.2730-03	.2730-03	.2730-03	.2100	1.796	528.1
95	155.00	.47000	96.000	.8000-02	.7800-02	.8000-02	.2324-03	.2324-03	.2324-03	.1840	1.580	527.1
95	155.00	.49000	97.000	.9000-02	.8800-02	.9000-02	.1955-03	.1955-03	.1955-03	.1490	1.233	526.4
95	155.00	.51000	98.000	.1010-01	.1010-01	.1010-01	.3431-03	.2900-03	.3431-03	.1220	1.771	520.4

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1804)

FUSELAGE

PARAMETRIC DATA

ALPHA = 30.00 BETA = -2.000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RHO  
SLUGS  
/FT<sup>3</sup>  
.7600-04  
.7559-04  
.7558-04

V  
FT/SEC  
3974.  
3875.  
3875.

Q  
PSIA  
3.963  
3.950  
3.950

T  
DEG. R  
97.70  
97.70  
97.70

TO  
DEG. R  
1349.  
1349.  
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202.0  
202.0

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ALPHA  
DEG.  
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30.00  
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RN/L  
X10 5  
/FT  
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3.737

MACH  
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8.000  
8.000

RUN  
NUMBER  
10  
11  
12

RUN  
NUMBER  
10  
11  
12

MJ  
LB-SEC  
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.7863-07  
.7863-07

ST FP  
P =  
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0.0175  
0.0175

HREF  
BTU/ R  
FT2SEC  
4920-01  
4920-01  
4919-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(970) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
10	.00000	.0000	1.0000	.7712	.6288	.6598	.3794-01	.3091-01	.3246-01	22.19	118.5	628.2
10	.00000	.5000-02	2.0000	.7464	.6034	.6070	.3572-01	.2369-01	.2835-01	20.89	139.4	644.1
10	.00000	.1000-01	3.0000	.6175	.5029	.5203	.3039-01	.2474-01	.2590-01	17.96	116.7	621.8
10	.00000	.3000-01	5.0000	.2699	.2333	.2620	.1426-01	.1179-01	.1289-01	9.157	50.32	570.7
10	.00000	.4000-01	6.0000	.2602	.2105	.2330	.1250-01	.1036-01	.1147-01	8.124	44.81	553.2
10	.00000	.5000-01	7.0000	.2232	.1833	.2054	.1093-01	.0919-02	.1010-01	6.951	46.16	577.1
10	.00000	.6000-01	8.0000	.2237	.1848	.2054	.1100-01	.0933-02	.1023-02	7.055	44.28	571.9
10	.00000	.7000-01	9.0000	.1914	.1580	.1735	.9-17-02	.7722-02	.6922-02	6.004	41.15	575.2
10	.00000	.8000-01	10.000	.1551	.1265	.1467	.7111-02	.5933-02	.5133-02	4.923	33.90	558.1
10	.00000	.9000-01	11.000	.1445	.1197	.1370	.6473-02	.5333-02	.4533-02	4.225	29.16	532.6
10	.00000	.0000-00	12.000	.1317	.1091	.1253	.5773-02	.4673-02	.3873-02	3.551	25.14	522.5
10	.00000	.1000-00	13.000	.1151	.1023	.1157	.5033-02	.4033-02	.3233-02	3.592	25.23	527.6
10	.00000	.2000-00	14.000	.1121	.9990-01	.1074	.4373-02	.3373-02	.2573-02	3.314	20.92	500.5
10	.00000	.3000-00	15.000	.1031	.8840-01	.9890-01	.3673-02	.2673-02	.1873-02	3.421	20.93	509.4
10	.00000	.4000-00	16.000	.1038	.8350-01	.1027	.3071-02	.2071-02	.1271-02	3.421	20.97	503.2
10	.00000	.5000-00	17.000	.1033	.8220-01	.1014	.2466-02	.1466-02	.0666-02	3.354	21.20	503.8
10	.00000	.6000-00	18.000	.1022	.8160-01	.9940-01	.1866-02	.0866-02	.0066-02	3.259	20.53	504.6

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1B04)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
10	.00000	.19000	21.000	.1032	.8550-01	.9960-01	.5076-02	.4206-02	.4998-02	3.306	20.86	561.7
10	.00000	.20000	22.000	.9950-01	.8250-01	.9630-01	.4932-02	.4059-02	.4735-02	3.182	20.05	563.9
10	.00000	.22500	23.000	.9250-01	.7660-01	.8950-01	.4552-02	.3771-02	.4410-02	2.960	18.67	562.7
10	.00000	.25000	801.00	.8640-01	.7320-01	.8580-01	.4348-02	.3701-02	.4219-02	2.834	17.80	563.5
10	.00000	.30000	802.00	.8550-01	.7080-01	.8250-01	.4236-02	.3525-02	.4030-02	2.727	17.18	564.6
10	.00000	.35000	803.00	.8910-01	.7370-01	.8640-01	.4355-02	.3625-02	.4233-02	2.821	17.72	569.7
10	.00000	.40000	804.00	.8720-01	.7210-01	.8460-01	.4291-02	.3547-02	.4162-02	2.759	17.84	570.0
10	.00000	.45000	805.00	.8270-01	.6930-01	.8020-01	.4059-02	.3352-02	.3946-02	2.608	17.36	571.9
10	.00000	.50000	806.00	.7910-01	.6630-01	.7380-01	.3746-02	.3034-02	.3533-02	2.394	16.42	573.8
10	.00000	.55000	807.00	.7520-01	.6250-01	.6930-01	.3434-02	.2663-02	.3241-02	2.166	15.81	579.1
10	.00000	.60000	808.00	.7005	.5663	.6162	.2954-02	.2181-02	.2633-02	1.861	14.61	594.7
10	.00000	.65000	809.00	.6362	.5032	.5573	.2418-01	.1557-01	.2032-01	1.483	12.82	614.7
10	.00000	.70000	810.00	.5657	.4354	.4793	.1723-01	.1153-01	.1534-01	1.065	10.72	616.9
10	.00000	.75000	811.00	.4875	.3635	.3982	.1014-01	.0644-01	.0939-01	0.739	8.46	616.2
10	.00000	.80000	812.00	.4043	.2820	.3050	.0299-01	.0141-01	.0354-01	0.353	5.86	615.8
10	.00000	.85000	813.00	.3164	.1926	.2150	.1152-01	.0464-01	.1255-01	0.161	4.89	604.4
10	.00000	.90000	814.00	.2302	.1011	.1235	.0932-02	.0322-02	.1131-01	0.011	48.89	604.4
10	.00000	.95000	815.00	.1553	.0570-01	.0700-02	.0637-02	.0253-02	.0489-02	5.932	47.66	597.4
10	.00000	.10000	816.00	.0946	.0196	.0193	.0594-02	.0253-02	.0612-02	5.860	46.99	601.6
10	.00000	.15000	817.00	.0325	.0083	.0204	.0361-02	.0153-02	.0322-02	6.057	48.48	605.1
10	.00000	.20000	818.00	.1313	.1083	.1304	.0461-02	.0332-02	.0417-02	4.106	29.58	577.4
10	.00000	.25000	819.00	.1243	.1027	.1235	.0316-02	.0252-02	.0326-02	3.908	28.59	574.1
10	.00000	.30000	820.00	.1226	.1011	.1218	.0233-02	.0175-02	.0232-02	3.823	29.89	579.2
10	.00000	.35000	821.00	.1098	.8570-01	.1031	.0108-02	.0074-02	.0074-02	3.244	26.81	577.9
10	.00000	.40000	822.00	.0500-02	.6300-02	.7500-02	.0114-03	.0055-03	.0114-03	.2500	1.510	539.4
10	.00000	.45000	823.00	.0000-01	.1040-01	.1250-01	.0151-03	.0123-03	.0151-03	.4130	2.559	541.6
10	.00000	.50000	824.00	.0000-01	.7110-01	.8350-01	.0433-02	.0397-02	.0410-02	2.630	21.04	578.5
10	.00000	.55000	825.00	.0000-01	.6760-01	.7950-01	.0434-02	.0324-02	.0311-02	2.544	19.86	582.3
10	.00000	.60000	826.00	.0000-01	.4930-01	.5600-01	.0244-02	.0225-02	.0264-02	1.851	16.16	584.4
10	.00000	.65000	827.00	.0000	.8450-01	.9360-01	.0566-02	.0458-02	.0490-02	3.155	22.90	569.1
10	.00000	.70000	828.00	.0000	.1831	.2166	.1100-01	.0908-02	.1066-01	6.682	48.22	604.8
10	.00000	.75000	829.00	.0000	.1721	.201	.1034-01	.0865-02	.1015-01	6.298	48.64	603.9
10	.00000	.80000	830.00	.0000	.1476	.1775	.0948-02	.0760-02	.0875-01	5.454	47.34	596.6
10	.00000	.85000	831.00	.0000	.1761	.2130	.1048-01	.0863-02	.1046-01	6.751	39.08	569.3
10	.00000	.90000	832.00	.0000	.1076	.1293	.0991-02	.0794-02	.0891-02	4.162	26.24	562.5
10	.00000	.95000	833.00	.0000	.1131	.1374	.0959-02	.0762-02	.0859-02	4.233	30.77	586.7
10	.00000	.10000	971.00	.0000	.1435	.1746	.0932-02	.0758-02	.0852-02	5.328	38.62	592.8
10	.00000	.15000	975.00	.0000	.1258	.1540	.0832-02	.0625-02	.0728-02	4.747	34.51	586.6
10	.00000	.20000	979.00	.0000	.2086	.2522	.1240-01	.1026-01	.1240-01	8.000	44.01	568.7
10	.00000	.25000	983.00	.0000	.1320-01	.1590-01	.0928-03	.0618-03	.0788-03	5.250	3.253	542.2
10	.00000	.30000	987.00	.0000	.1945	.2355	.1158-01	.0966-02	.1158-01	7.404	46.41	574.6
10	.00000	.35000	991.00	.0000	.1241	.1503	.0735-02	.0605-02	.0735-02	4.722	41.42	575.2
10	.00000	.40000	995.00	.0000	.0350-01	.1133	.5573-02	.4602-02	.5573-02	3.558	26.02	574.5



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AEDC VKF V41B-57A (CH-49B) COLLATION CHECK

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CH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV180°)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(19TO) BTU/R FT2SEC	H(10) BTU/R FT2SEC	H(TAH) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
10	30.000	.95000	974.00	.1460	.1202	.1460	.7192-02	.5912-02	.7182-02	4.509	32.80	585.1
10	30.000	.97500	979.00	.6390-01	.6950-01	.9390-01	.4127-02	.3419-02	.4127-02	2.687	19.78	561.8
11	31.500	.20000	108.00	.1018	.8410-01	.1018	.5006-02	.4119-02	.5006-02	3.221	32.18	570.4
10	32.000	.40000	831.00	.1127	.9310-01	.1093	.5006-02	.4573-02	.5378-02	3.540	24.27	574.7
10	32.000	.50000	832.00	.9450-01	.7790-01	.9170-01	.4561-02	.3933-02	.4509-02	2.938	20.72	581.4
10	32.000	.60000	833.00	.6580-01	.7060-01	.8310-01	.4220-02	.3475-02	.4030-02	2.654	17.56	584.0
10	32.000	.70000	834.00	.9050-01	.7440-01	.8770-01	.4451-02	.3659-02	.4313-02	2.772	20.81	590.1
10	32.000	.80000	835.00	.1277	.1051	.1238	.6284-02	.5170-02	.6090-02	3.932	27.65	587.3
10	32.000	.90000	836.00	.1203	.1323	.1579	.7910-02	.6579-02	.7769-02	4.952	36.00	593.9
10	32.000	.95000	837.00	.1734	.1427	.1712	.8532-02	.7032-02	.8425-02	5.346	40.21	595.4
10	32.000	.97500	838.00	.1737	.1476	.1779	.8325-02	.7265-02	.8754-02	5.479	42.53	593.4
10	32.000	1.0150	839.00	.1337	.1102	.1262	.5579-02	.5421-02	.6280-02	4.148	32.96	582.5
10	32.000	1.0300	840.00	.1322	.1090	.1262	.6032-02	.5333-02	.6208-02	4.123	31.67	578.9
10	32.000	1.0450	841.00	.1321	.1039	.1261	.5939-02	.5333-02	.6203-02	4.121	31.12	578.7
10	32.000	1.0600	842.00	.1040	.8590-01	.9340-01	.5939-02	.5333-02	.6203-02	3.271	26.59	573.9
11	35.000	.50000-01	115.00	.1541	.1277	.1541	.7500-02	.6331-02	.7500-02	4.940	31.16	562.1
11	35.000	.60000	110.00	.1145	.9460-01	.1145	.5337-02	.4233-02	.5337-02	3.555	35.82	576.0
11	39.000	.10000+00	116.00	.1243	.1031	.1243	.6111-02	.5073-02	.6111-02	4.018	25.41	555.6
11	40.000	.70000-01	121.00	.6790-01	.7300-01	.4730-01	.4332-02	.3593-02	.4332-02	2.859	18.13	552.2
11	40.000	.15000	111.00	.1973	.1626	.1973	.9703-02	.7993-02	.9703-02	6.143	44.79	580.6
11	40.000	.20000	112.00	.1119	.9230-01	.1119	.5044-02	.4500-02	.5504-02	3.492	38.22	579.3
11	42.500	.50000-01	127.00	.1113	.9230-01	.1113	.5044-02	.4500-02	.5504-02	3.594	24.11	557.0
11	45.000	.15000	117.00	.1061	.8610-01	.1061	.5220-02	.4335-02	.5220-02	3.451	20.14	552.7
10	45.000	.92500	969.00	.2590-01	.2160-01	.2590-01	.1275-02	.1030-02	.1275-02	8.490	6.295	547.1
10	45.000	.95000	973.00	.7500-02	.6300-02	.7500-02	.3055-03	.3055-03	.3705-03	2.480	1.844	543.3
10	45.000	.97500	978.00	.9300-02	.7800-02	.9300-02	.4593-03	.3633-03	.4593-03	3.080	2.286	543.7
11	51.000	.20000	118.00	.5000-01	.4650-01	.5000-01	.2753-02	.2331-02	.2753-02	1.834	11.65	548.2
11	60.000	.50000-01	131.00	.3980-01	.3230-01	.3980-01	.1911-02	.1530-02	.1911-02	1.278	8.626	548.8
11	67.500	.20000	128.00	.3540-01	.2540-01	.3540-01	.1741-02	.1530-02	.1741-02	1.162	8.619	545.3
10	75.000	.97500	977.00	.7800-02	.6500-02	.7800-02	.3554-03	.3238-03	.3554-03	2.590	1.914	544.2
11	105.00	.40100	135.00	.1500-01	.9500-02	.1150-01	.5531-03	.4728-03	.5531-03	3.800	2.821	544.2
11	105.00	.50100	136.00	.2130-01	.1780-01	.2130-01	.1057-02	.8734-03	.1050-02	7.010	5.403	545.8
11	105.00	.60100	137.00	.2850-01	.2370-01	.2850-01	.1393-02	.1153-02	.1393-02	9.300	7.372	549.4
11	105.00	.70100	138.00	.5773-01	.4790-01	.5770-01	.2335-02	.2354-02	.2835-02	1.669	14.77	551.7
11	105.00	.80100	139.00	.4100-01	.3410-01	.4100-01	.2018-02	.1677-02	.2018-02	1.330	10.58	551.8
11	113.00	.60100	145.00	.1230-01	.1020-01	.1230-01	.5042-03	.5042-03	.6050-03	4.060	3.230	543.6
11	116.00	.60100	146.00	.3630-01	.3210-01	.3630-01	.1233-02	.1579-02	.1639-02	1.262	10.01	549.2
11	116.00	.70100	147.00	.4660-01	.3870-01	.4660-01	.2232-02	.1904-02	.2232-02	1.516	12.00	552.2
11	116.00	.80100	148.00	.7020-01	.5830-01	.7020-01	.3454-03	.2866-02	.3454-02	2.272	17.94	556.0
11	120.00	.10000+00	132.00	.1070-01	.8300-02	.1070-01	.5263-03	.4390-03	.5263-03	3.550	2.143	539.6
11	120.00	.80500	247.00	.1276	.1036	.1276	.6275-02	.4390-02	.6275-02	4.069	32.99	565.2
11	120.00	.82000	248.00	.8590-01	.7130-01	.8590-01	.4264-02	.3536-02	.4264-02	2.780	22.67	555.7
11	120.00	.86200	249.00	.5220-01	.4340-01	.5220-01	.2557-02	.2135-02	.2557-02	1.712	12.43	546.8

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1804)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=C.9	H/HREF R=1.0	H/HREF (TAN)	H(970) BTU/ R FT2SEC	H(101) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
11	130.00	.80500	253.00	.8910-01	.7390-01	.8910-01	.4381-02	.3635-02	.4381-02	2.876	22.70	557.3
11	130.00	.82900	254.00	.6240-01	.5180-01	.6240-01	.3067-02	.2548-02	.3067-02	2.030	15.59	551.8
11	130.00	.86200	255.00	.2360-01	.1970-01	.2360-01	.1163-02	.9683-03	.1163-02	.7800	6.414	542.6
11	130.00	.95300	256.00	.9700-02	.8100-02	.9700-02	.789-03	.3992-03	.4789-03	.3240	2.954	537.8
11	135.00	.40100	142.00	.1300-02	.1100-02	.1300-02	.5558-04	.5466-04	.6559-04	.4400-01	.3430	538.5
11	135.00	.50100	143.00	.2100-02	.1800-02	.2100-02	.1053-03	.8795-04	.1055-03	.7100-01	.5860	539.8
11	135.00	.60100	144.00	.3000-02	.2500-02	.3000-02	.1463-03	.1219-03	.1463-03	.9800-01	.7610	541.2
11	135.00	.70100	145.00	.4700-02	.4700-02	.4700-02	.2800-03	.2333-03	.2800-03	.1890	1.502	540.7
11	140.00	.18500	85.000	.7300-02	.6100-02	.7300-02	.357-03	.2973-03	.3574-03	.2410	1.857	539.0
11	140.00	.19500	87.000	.6900-02	.7400-02	.6900-02	.4357-03	.3630-03	.4357-03	.2940	2.260	539.8
11	145.00	.63100	263.00	.5190-01	.4310-01	.5190-01	.2552-02	.2122-02	.2552-02	1.696	13.05	549.0
12	145.00	.63300	264.00	.1350-01	.1130-01	.1350-01	.6643-03	.5541-03	.6649-03	.4480	3.367	539.4
12	145.00	.68200	267.00	.5900-02	.4500-02	.5900-02	.2892-03	.2411-03	.2892-03	.1960	1.613	537.2
11	150.00	.18000	86.000	.4800-02	.4500-02	.4800-02	.1432-03	.1194-03	.1432-03	.4270	3.176	542.2
11	150.00	.19000	88.000	.1290-01	.1080-01	.1290-01	.6363-03	.5299-03	.6363-03	.5000-02	.3500-01	539.0
11	150.00	.19500	89.000	.2000-03	.1500-03	.2000-03	.7752-05	.6451-05	.7752-05	.1060	.7870	539.5
11	150.00	.19700	90.000	.3200-02	.2700-02	.3200-02	.1669-03	.1306-03	.1669-03	.4260	3.391	543.7
11	150.00	.18.0	77.000	.1500-01	.1300-01	.1500-01	.6359-03	.5293-03	.6359-03	.4340	3.119	542.0
11	175.00	.15000	81.000	.1310-01	.1000-01	.1310-01	.6454-03	.5375-03	.6454-03	.2670	1.986	541.9
11	175.00	.16900	79.000	.8100-02	.5000-02	.8100-02	.3977-03	.3312-03	.3977-03	.7650	5.456	545.3
11	175.00	.17500	78.000	.2330-01	.1900-01	.2330-01	.1145-02	.9526-03	.1145-02	.543	40.75	564.3
10	180.00	.10000-01	59.000	.1737	.1438	.1737	.8546-02	.7075-02	.8546-02	1.580	11.34	545.5
10	180.00	.20000-01	60.000	.4810-01	.4000-01	.4810-01	.2367-02	.1969-02	.2367-02	.6800	4.332	541.2
10	180.00	.50000-01	61.000	.2050-01	.1710-01	.2050-01	.1012-02	.8425-03	.1012-02	.3710	2.365	540.2
10	180.00	.75000-01	62.000	.1120-01	.9300-02	.1120-01	.5512-03	.4592-03	.5512-03	.2870	1.882	540.8
10	180.00	.10000+00	63.000	.8700-02	.7200-02	.8700-02	.4266-03	.3573-03	.4266-03	.3330	2.323	541.0
10	180.00	.12500	64.000	.1010-01	.8400-02	.1010-01	.4959-03	.4130-03	.4959-03	.4190	2.920	541.8
10	180.00	.15000	65.000	.1270-01	.1060-01	.1270-01	.6243-03	.5199-03	.6243-03	.8730	4.861	545.3
10	180.00	.16000	66.000	.2660-01	.2210-01	.2660-01	.1308-02	.1088-02	.1308-02	2.261	12.54	551.6
10	180.00	.17000	67.000	.6950-01	.5770-01	.6950-01	.3419-02	.2840-02	.3419-02	.5730	3.547	542.6
10	180.00	.20000	69.000	.1740-01	.1450-01	.1740-01	.8544-03	.7114-03	.8544-03	.3490	2.962	543.0
10	180.00	.40100	72.000	.1060-01	.8900-02	.1060-01	.5207-03	.4335-03	.5207-03	.2690	2.281	542.4
10	180.00	.50000	73.000	.8100-02	.6800-02	.8100-02	.4004-03	.3334-03	.4004-03	.2240	1.838	542.8
10	180.00	.60100	74.000	.6900-02	.5600-02	.6900-02	.3337-03	.2778-03	.3337-03	.2310	1.840	542.3
10	180.00	.70100	75.000	.7000-02	.5800-02	.7000-02	.3445-03	.2868-03	.3445-03			

DATE 25 AUG 76 AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

FUSELAGE

PARAMETRIC DATA

ALPHA = 35.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
178	7.900	.5382	35.08	.0000	180.0	109.8	.1200-01	1270.	94.20	.5330	3757.	.1086-04
179	7.900	.5388	35.09	.0000	180.0	109.8	.1200-01	1269.	94.10	.5330	3756.	.1087-04
180	7.900	.5428	35.09	.0000	180.0	110.7	.1200-01	1270.	94.20	.5370	3757.	.1096-04

RUN NUMBER	PU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
178	.7585-07	.1766-01	0.3175
179	.7580-07	.1786-01	.5517-01
180	.7583-07	.1793-01	.5494-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
178	.0000	.0000	1.0000	.6882	.5664	.6044	.1229-01	.1011-01	.1073-01	7.255	40.23	554.9
178	.0000	.5000-02	2.0000	.7373	.6051	.6059	.1317-01	.1081-01	.1092-01	7.651	52.79	552.1
178	.0000	.1000-01	3.0000	.6346	.5218	.5327	.1133-01	.9317-02	.9513-02	6.655	44.66	555.9
178	.0000	.2000-01	4.0000	.4270	.3523	.3717	.7626-01	.6291-02	.6638-02	4.563	25.41	544.8
178	.0000	.3000-01	5.0000	.3203	.2644	.2840	.5720-02	.4722-02	.5072-02	3.439	19.17	541.9
178	.0000	.4000-01	6.0000	.2651	.2190	.2391	.4734-02	.3911-02	.4252-02	2.857	15.95	539.8
178	.0000	.5000-01	7.0000	.2589	.2136	.2345	.4624-02	.3814-02	.4187-02	2.767	18.67	544.8
178	.0000	.6000-01	8.0000	.2555	.2118	.2340	.4581-02	.3762-02	.4173-02	2.752	17.53	542.4
178	.0000	.7000-01	9.0000	.2231	.1941	.2049	.3984-02	.3287-02	.3539-02	2.388	16.62	543.9
178	.0000	.8000-01	10.000	.1818	.1500	.1679	.3246-02	.2679-02	.2938-02	1.949	13.58	542.7
178	.0000	.9000-01	11.000	.1720	.1421	.1595	.3071-02	.2537-02	.2848-02	1.851	11.80	540.5
178	.0000	.1000-00	12.000	.1566	.1294	.1458	.2797-02	.2311-02	.2604-02	1.687	10.17	540.3
178	.0000	.1200	14.000	.1603	.1326	.1501	.2853-02	.2367-02	.2680-02	1.735	9.698	537.2
178	.0000	.1300	15.000	.1382	.1142	.1285	.2467-02	.2039-02	.2313-02	1.490	8.757	539.3
178	.0000	.1400	16.000	.1283	.1060	.1204	.2291-02	.1834-02	.2151-02	1.385	8.841	538.7
178	.0000	.1600	18.000	.1323	.1093	.1244	.2362-02	.1951-02	.2221-02	1.427	8.851	539.1
178	.0000	.1700	19.000	.1314	.1085	.1237	.2346-02	.1938-02	.2209-02	1.416	9.034	539.5



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AEDC VKF V418-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V418-57A) ORBITER FUSELAGE

(RV1805)

RUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAN)	H(1970) BTU/ R FT2SEC	H(170) BTU/ R FT2SEC	HITAN) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
178	30.000	.92500	970.00	.4620-01	.3820-01	.4620-01	.3257-03	.6825-02	.8257-03	.5000	3.724	537.8
178	30.000	.95000	974.00	.5670-01	.4690-01	.5670-01	.1012-02	.8365-03	.1012-02	.6130	4.571	537.0
178	30.000	.97500	979.00	.4050-01	.3350-01	.4050-01	.7235-03	.5989-03	.7235-03	.4420	3.300	532.5
179	31.500	.20000	108.00	.1126	.9310-01	.1126	.2010-02	.1662-02	.2010-02	.1216	12.35	537.3
178	32.000	.40000	831.00	.1223	.1009	.1160	.2184-02	.1502-02	.2072-02	.1311	9.130	543.0
178	32.000	.50000	832.00	.1032	.8510-01	.9790-01	.1842-02	.1519-02	.1747-02	1.099	7.889	546.6
178	32.000	.60000	833.00	.9110-01	.7510-01	.8640-01	.1627-02	.1341-02	.1543-02	.9700	6.538	547.0
178	32.000	.70000	834.00	.6730-01	.5530-01	.6440-01	.1212-02	.9995-03	.1149-02	.7250	5.555	545.1
178	32.000	.80000	835.00	.6370-01	.5220-01	.6050-01	.1139-02	.9394-03	.1050-02	.6830	4.914	542.8
178	32.000	.90000	836.00	.5930-01	.4810-01	.5590-01	.1039-02	.8282-03	.9853-03	.6270	4.662	540.1
178	32.000	.95000	837.00	.6250-01	.5170-01	.6040-01	.1117-02	.9226-03	.1019-02	.6740	5.189	539.6
179	32.000	.97500	838.00	.7030-01	.5730-01	.6790-01	.1251-02	.1034-02	.1212-02	.7570	6.042	537.9
178	32.000	1.0150	839.00	.3770-01	.3120-01	.3530-01	.0738-03	.5574-03	.6302-03	.4100	3.336	534.8
178	32.000	1.0300	840.00	.3930-01	.3270-01	.3590-01	.1052-03	.5835-03	.6505-03	.4290	3.373	534.3
178	32.000	1.0450	841.00	.4620-01	.3220-01	.3220-01	.3245-03	.6822-03	.7712-03	.5020	3.875	534.4
178	32.000	1.0600	842.00	.3590-01	.2970-01	.3360-01	.6412-03	.5306-03	.5938-03	.3910	3.239	534.1
179	35.000	.50000-01	115.00	.1342	.1111	.1342	.2355-02	.1994-02	.2558-02	.9397	9.397	530.4
179	35.000	.20000	119.00	.1172	.9790-01	.1180	.2108-02	.1711-02	.2108-02	1.272	12.91	538.8
179	35.000	1.0000+00	116.00	.1095	.9050-01	.1095	.1955-02	.1618-02	.1955-02	1.192	7.631	532.6
179	40.000	.75000-01	121.00	.7520-01	.6230-01	.7520-01	.1343-02	.1113-02	.1343-02	8.250	5.296	527.8
179	40.000	.15000	111.00	.1987	.1641	.1987	.3548-02	.2929-02	.3548-02	2.132	15.65	541.5
179	42.500	.20000	112.00	.1172	.9580-01	.1172	.2092-02	.1728-02	.2092-02	1.250	14.06	540.3
179	42.500	.50000-01	127.00	.3840-01	.3160-01	.3840-01	.1757-02	.1456-02	.1757-02	1.078	7.334	538.9
179	45.000	.92500	963.00	.9170-01	.7590-01	.9170-01	.1637-02	.1355-02	.1637-02	.9980	5.886	532.6
178	45.000	.95000	973.00	.4500-02	.3760-02	.4500-02	.7950-04	.6598-04	.7950-04	.4900-01	.3650	539.0
178	45.000	.97500	978.00	.3000-03	.2000-03	.3000-03	.4754-05	.3941-05	.4754-05	.3000-02	.2200-01	527.4
179	51.000	.20000	118.00	.5240-01	.4340-01	.5240-01	.9354-03	.7747-03	.9354-03	.5720	3.669	530.4
179	60.000	.50000-01	131.00	.3180-01	.2640-01	.3180-01	.5583-03	.4715-03	.5583-03	.3510	2.395	525.3
179	67.500	.20000	128.00	.3050-01	.2530-01	.3050-01	.5446-03	.4512-03	.5446-03	.3340	2.499	529.0
178	75.000	.97500	977.00	.4000-03	.3000-03	.4000-03	.7105-05	.5890-05	.7105-05	.4000-02	.3300-01	527.5
178	75.000	.97500	976.00	.2000-03	.2000-03	.2000-03	.3406-05	.2824-05	.3406-05	.2000-02	.1600-01	527.2
179	105.00	.40100	135.00	.2720-01	.2220-01	.2720-01	.4819-03	.4026-03	.4819-03	.2930	2.322	528.7
179	105.00	.80000	136.00	.1850-01	.1540-01	.1850-01	.3313-03	.2744-03	.3313-03	.2030	1.625	530.7
179	105.00	.60100	137.00	.1170-01	.9700-02	.1170-01	.2093-03	.1731-03	.2093-03	1.230	1.035	530.2
179	105.00	.70100	138.00	.4500-02	.3700-02	.4500-02	.8024-04	.6551-04	.8024-04	.4900-01	.3950	527.5
179	105.00	.80000	139.00	.1630-02	.1320-02	.1630-02	.2835-04	.2351-04	.2835-04	.1700-01	.1410	525.1
179	113.00	.60100	146.00	.1630-01	.1320-01	.1630-01	.2833-03	.2337-03	.2833-03	.1770	1.423	529.6
179	116.00	.60100	147.00	.1320-01	.1020-01	.1320-01	.2357-03	.1952-03	.2357-03	.1440	1.158	530.0
179	116.00	.70100	148.00	.2000-02	.1700-02	.2000-02	.3015-04	.2399-04	.3015-04	.2200-01	.1800	525.2
179	120.00	.10000+00	132.00	.9100-02	.7500-02	.9100-02	.6240-03	.1349-03	.6240-03	.1000-00	.6100	524.4
179	120.00	.80500	247.00	.3900-02	.3300-02	.3900-02	.7032-04	.5842-04	.7032-04	.4400-01	.3650	519.4
179	120.00	.82900	248.00	.6900-02	.5700-02	.6900-02	.227-03	.1019-03	.227-03	.7600-01	.6360	520.1

REPRODUCIBILITY OF THIS  
DOCUMENT PAGE IS POOR

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1805)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PIN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISO) FT2SEC	H(ISO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	QDOT DEG. R /SEC	TW DEG. R
179	120.00	.86200	249.00	.8200-02	.6800-02	.8200-02	.1457-03	.1210-03	.1457-03	.9000-01	.6660	521.9
179	130.00	.80500	253.00	.4500-02	.3700-02	.4500-02	.1967-04	.1619-04	.1967-04	.5000-01	.4010	519.2
179	130.00	.82900	254.00	.9900-02	.8200-02	.9900-02	.1768-03	.1468-03	.1768-03	.1100	.3620	519.6
179	132.00	.85200	255.00	.1100-01	.9200-02	.1100-01	.1971-03	.1637-03	.1971-03	.1220	1.019	521.4
179	135.00	.40100	142.00	.3400-02	.2300-02	.3400-02	.6044-04	.5013-04	.6044-04	.3700-01	.2910	525.4
179	135.00	.50100	143.00	.4000-02	.3300-02	.4000-02	.058-04	.585-04	.058-04	.4300-01	.3610	526.6
179	135.00	.60100	144.00	.3600-02	.3600-02	.4400-02	.7777-04	.6448-04	.7777-04	.4800-01	.3730	526.5
179	135.00	.70100	145.00	.3000-02	.2500-02	.3000-02	.5348-04	.4436-04	.5348-04	.3300-01	.2660	525.1
179	140.00	.13000	65.000	.2090-01	.1740-01	.2090-01	.3738-03	.3103-03	.3738-03	.2320	1.801	522.0
179	140.00	.13500	67.000	.5800-02	.4600-02	.5800-02	.1039-03	.6020-04	.1039-03	.6400-01	.4990	524.0
179	145.00	.83500	259.00	.3900-02	.3100-02	.3900-02	.6726-04	.5639-04	.6726-04	.4200-01	.3280	519.1
180	145.00	.82900	260.00	.1600-02	.1300-02	.1600-02	.6277-04	.2337-04	.6277-04	.1800-01	.1350	524.3
180	145.00	.63200	261.00	.3200-02	.2700-02	.3200-02	.5757-04	.4778-04	.5757-04	.3600-01	.2970	523.4
179	150.00	.13000	68.000	.5500-02	.4500-02	.5500-02	.1634-03	.1406-03	.1634-03	.1050	.7860	522.7
179	150.00	.16000	64.000	.9900-02	.8200-02	.9900-02	.1762-03	.1462-03	.1762-03	.1090	.8190	522.7
179	155.00	.16000	80.000	.6200-02	.4400-02	.6200-02	.569-03	.319-03	.569-03	.9800-01	.7390	523.1
179	155.00	.16000	83.000	.1800-01	.1500-01	.1800-01	.3227-03	.2679-03	.3227-03	.2000-02	1.605	523.7
179	155.00	.16000	81.000	.2500-01	.2130-01	.2500-01	.4653-03	.3901-03	.4653-03	.2830	2.052	525.1
179	175.00	.16500	79.000	.1800-01	.1500-01	.1800-01	.3347-03	.2777-03	.3347-03	.2070	1.553	524.0
179	175.00	.17500	79.000	.3000-01	.2530-01	.3000-01	.5439-03	.4512-03	.5439-03	.3360	2.437	525.0
178	180.00	.10000-01	59.000	.1400	.1198	.1400	.2590-02	.2140-02	.2590-02	1.565	11.65	538.9
178	180.00	.25000-01	60.000	.4000-01	.3360-01	.4000-01	.7242-03	.5992-03	.7242-03	.4410	3.186	534.1
178	180.00	.50000-01	61.000	.1800-01	.1500-01	.1800-01	.3355-03	.2777-03	.3355-03	1.313	1.313	532.1
178	180.00	.50000-01	62.000	.1000-01	.9000-02	.1000-01	.1943-03	.1609-03	.1943-03	.1190	.7620	531.3
178	180.00	.10000+00	63.000	.9500-02	.8000-02	.9500-02	.1718-03	.1423-03	.1718-03	.1050	.6940	530.6
178	180.00	.12000	64.000	.1000-01	.8600-02	.1000-01	.1897-03	.1563-03	.1897-03	.1160	.8110	530.4
178	180.00	.15000	65.000	.1750-01	.1450-01	.1750-01	.3120-03	.2585-03	.3120-03	.1910	1.342	529.8
178	180.00	.16000	65.000	.3710-01	.3070-01	.3710-01	.6524-03	.5486-03	.6524-03	.4060	2.274	530.9
178	180.00	.17000	67.000	.8200-01	.6810-01	.8200-01	.1469-02	.1216-02	.1469-02	.8970	5.023	532.7
178	180.00	.20000	68.000	.1600-01	.1350-01	.1600-01	.2335-03	.2032-03	.2335-03	.1800	1.125	528.7
178	180.00	.20000	72.000	.2100-02	.1700-02	.2100-02	.5393-04	.3065-04	.5393-04	.2300-01	.1950	528.0
178	180.00	.50000	73.000	.9000-03	.7000-03	.9000-03	.1603-04	.1328-04	.1603-04	.1000-01	.8400-01	528.0
178	180.00	.60100	74.000	.3900-02	.3100-02	.3900-02	.6726-04	.5610-04	.6726-04	.4200-01	.3450	527.7
178	180.00	.70100	75.000	.3400-02	.2800-02	.3400-02	.6100-04	.5057-04	.6100-04	.3600-01	.3020	526.9

FUSELAGE

PARAMETRIC DATA

ALPHA = 35.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
151	7.940	35.08	.0000	180.0	211.9	.2300-01	1250.	91.90	1.006	3729.	.2081-04
152	7.940	35.09	.0000	180.0	211.7	.2300-01	1254.	92.20	1.005	3735.	.2072-04
153	7.940	35.09	.0000	180.0	210.3	.2300-01	1260.	92.60	.9980	3744.	.2049-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HN/L X10 <sup>6</sup> /FT	ST FF R =
151	.7395-07	1.049	0.0175
152	.7421-07	1.043	.3930-01
153	.7456-07	1.029	.3990-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DT/DT DEG. R /SEC	T4 DEG. R
151	.00000	.00000	1.0000	.6899	.5635	.6027	.1688-01	.1378-01	.1474-01	9.404	51.75	567.9
151	.00000	.50000-02	2.0000	.7396	.6015	.6024	.1809-01	.1471-01	.1473-01	9.853	67.36	580.5
151	.00000	.10000-01	3.0000	.6456	.5263	.5378	.1579-01	.1287-01	.1315-01	8.707	57.91	573.8
151	.00000	.20000-01	4.0000	.4198	.3440	.3636	.1027-01	.8414-02	.6933-02	5.826	32.23	557.7
151	.00000	.30000-01	5.0000	.3227	.2648	.2850	.7894-02	.6477-02	.6372-02	4.509	24.98	554.0
151	.00000	.40000-01	6.0000	.2609	.2143	.2335	.6393-02	.5241-02	.5712-02	3.664	20.34	551.1
151	.00000	.50000-01	7.0000	.2551	.2090	.2302	.6239-02	.5113-02	.5630-02	3.540	23.73	557.8
151	.00000	.60000-01	8.0000	.2559	.2098	.2326	.6259-02	.5133-02	.5591-02	3.557	22.58	555.2
151	.00000	.70000-01	9.0000	.2203	.1935	.2017	.5383-02	.4417-02	.4934-02	3.063	21.18	556.9
151	.00000	.80000-01	10.000	.1750	.1435	.1611	.4280-02	.3511-02	.3942-02	2.444	16.93	554.0
151	.00000	.90000-01	11.000	.1665	.1357	.1540	.4075-02	.3344-02	.3758-02	2.332	14.78	552.9
151	.00000	.10000+00	12.000	.1584	.1283	.1452	.3825-02	.3139-02	.3551-02	2.189	13.12	552.7
151	.00000	.12000	14.000	.1753	.1440	.1637	.4288-02	.3522-02	.4003-02	2.464	13.67	550.7
151	.00000	.13000	15.000	.1350	.1109	.1263	.3303-02	.2712-02	.3069-02	1.894	11.06	551.6
151	.00000	.14000	16.000	.1233	.1051	.1210	.3162-02	.2597-02	.2951-02	1.816	11.52	550.9
151	.00000	.15000	18.000	.1322	.1085	.1241	.3235-02	.2655-02	.3035-02	1.854	11.43	551.9
151	.00000	.17000	19.000	.1329	.1074	.1230	.3201-02	.2628-02	.3008-02	1.834	11.62	552.3

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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(RV1805)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	T-ETA	X/L	T/C NO	H/REF P=0.9	H/REF R=1.0	H/REF (TAW)	H(OTO) BTU/ R FT2SEC	H(ITA) BTU/ R FT2SEC	COOT BTU/ FT2SEC	DTWDT DEC. R /SEC	TH DEC. R
151	.00000	.18000	20.000	.1304	.1071	.1227	.3190-02	.2619-02	.3000-02	11.58	552.7
151	.00000	.19000	21.000	.1206	.9900-01	.1136	.2950-02	.2423-02	1.826	10.75	550.9
151	.00000	.20000	22.000	.1228	.1308	.1158	.3005-02	.2466-02	1.694	10.91	552.3
151	.00000	.22500	23.000	.1182	.9700-01	.1117	.2890-02	.2373-02	1.721	10.51	551.6
151	.00000	.25000	801.00	.1108	.9100-01	.1050	.2711-02	.2226-02	1.658	9.856	551.8
151	.00000	.30000	802.00	.1019	.8350-01	.0950-01	.2046-02	.2046-02	1.555	9.051	552.2
151	.00000	.35000	803.00	.1001	.8210-01	.0930-01	.2448-02	.2009-02	1.428	8.845	554.4
151	.00000	.40000	804.00	.1031	.8450-01	.0960-01	.2521-02	.2008-02	1.397	8.855	554.1
151	.00000	.45000	805.00	.9190-01	.7540-01	.0970-01	.2249-02	.1844-02	1.281	8.600	555.4
151	.00000	.50000	806.00	.8420-01	.6930-01	.0970-01	.2059-02	.1693-02	1.173	8.117	555.7
151	.00000	.55000	807.00	.8260-01	.6770-01	.0970-01	.2022-02	.1657-02	1.147	8.463	557.5
151	.00000	.60000	808.00	.7350-01	.6030-01	.0970-01	.1802-02	.1476-02	1.022	7.295	559.6
151	.00000	.65000	809.00	.7150-01	.5850-01	.0970-01	.1751-02	.1434-02	.990	6.716	559.8
151	.00000	.70000	810.00	.6930-01	.5820-01	.0970-01	.1559-02	.1276-02	.8810	6.716	559.8
151	.00000	.75000	811.00	.6930-01	.5820-01	.0970-01	.1707-02	.1339-02	.9660	7.119	559.2
151	.00000	.80000	812.00	.7310-01	.5230-01	.0970-01	.1789-02	.1455-02	1.013	7.468	558.8
151	.00000	.85000	813.00	.6770-01	.5230-01	.0970-01	.1655-02	.1356-02	.9390	7.161	558.0
151	.00000	.90000	814.00	.6770-01	.5230-01	.0970-01	.1552-02	.1273-02	.8940	6.321	555.2
151	.00000	.95000	815.00	.5170-01	.4240-01	.0970-01	.1265-02	.1038-02	.7230	5.936	553.7
151	.00000	.99000	816.00	.4630-01	.3970-01	.0970-01	.1184-02	.9714-03	.6760	5.553	553.8
151	.00000	.10000	817.00	.4720-01	.3870-01	.0970-01	.1155-02	.9476-03	.6590	5.407	554.8
151	.00000	.10150	818.00	.3000-01	.2450-01	.0970-01	.7334-03	.6027-03	.4230	3.132	548.7
151	.00000	.10300	819.00	.3190-01	.2630-01	.0970-01	.7813-03	.6423-03	.4510	3.346	547.5
151	.00000	.10500	820.00	.2330-01	.2370-01	.0970-01	.7064-03	.5807-03	.4080	3.239	547.8
151	.00000	.10700	821.00	.2270-01	.1870-01	.0970-01	.5550-03	.4563-03	.3210	2.691	547.5
151	.00000	.15000	89.000	.5500-02	.4630-02	.5530-02	.1337-03	.1118-03	.7900-01	.4790	539.8
151	.00000	.20000	91.000	.1170-01	.5630-02	.1170-01	.2855-03	.2353-03	.1670	1.037	539.4
151	.00000	.30000	90.000	.1050-01	.6760-02	.1050-01	.2573-03	.2120-03	.1510	.9090	539.7
151	.00000	.40000	823.00	.9700-01	.7950-01	.9180-01	.2373-02	.1944-02	1.343	10.61	558.9
151	.00000	.50000	824.00	.9320-01	.7630-01	.8220-01	.2279-02	.1855-02	1.287	10.15	560.4
151	.00000	.60000	825.00	.6040-01	.4940-01	.5720-01	.1477-02	.1209-02	.8340	7.370	560.6
151	.00000	.70000	826.00	.7230-01	.5370-01	.6930-01	.1784-02	.1460-02	1.007	7.416	560.6
151	.00000	.80000	827.00	.6910-01	.5560-01	.6540-01	.1630-02	.1385-02	.9570	7.055	558.8
151	.00000	.90000	828.00	.5530-01	.4580-01	.5360-01	.1357-02	.1121-02	.7790	6.162	555.4
152	.00000	.10000+00	103.00	.2300	.1890	.2300	.5627-02	.4623-02	3.253	19.01	550.9
152	.00000	.15000	104.00	.1478	.1214	.1478	.3615-02	.2971-02	2.093	13.28	550.0
151	.00000	.20000	971.00	.9590-01	.7940-01	.9690-01	.2371-02	.1941-02	1.338	9.855	550.7
151	.00000	.25000	975.00	.1037	.8450-01	.1007	.2464-02	.2019-02	1.397	10.30	558.0
151	.00000	.30000	989.00	.1030	.8450-01	.1030	.2519-02	.2066-02	1.436	10.61	555.0
152	.00000	.35000+01	105.00	.2356	.1939	.2356	.5763-02	.4741-02	3.354	18.65	547.0
151	.00000	.40000	93.000	.9700-02	.8000-02	.9700-02	.2375-03	.1957-03	1.390	.8630	539.5
152	.24.500	.10000+00	106.00	.2383	.1957	.2383	.5831-02	.4789-02	3.362	21.31	552.4
152	.25.500	.15000	107.00	.1625	.1334	.1625	.3975-02	.3264-02	2.287	20.29	553.6



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AEDC VKF V41B-57A (CH-49B) COLLATION DECK

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CH-49B (AEDC V41B-57A) ORBITIER FUSELAGE

(RV1B35)

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO) BTU/ R FT2SEC	H1TO) BTU/ R FT2SEC	H1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
151	30.000	.32500	970.00	.8710-01	.7140-01	.8710-01	.2129-02	.1747-02	.2129-02	1.214	8.968	554.9
151	30.000	.95000	974.00	.1029	.8440-01	.1029	.2518-02	.2064-02	.2518-02	1.432	10.57	556.4
151	30.000	.97500	979.00	.4550-01	.3750-01	.4550-01	.1114-02	.9169-03	.1114-02	.6480	4.813	543.5
152	31.500	.20000	108.00	.1089	.8940-01	.1089	.2664-02	.2187-02	.2664-02	1.532	15.43	553.9
151	32.000	.40000	831.00	.1222	.1026	.1185	.3033-02	.2510-02	.3033-02	1.739	12.03	557.4
151	32.000	.50000	832.00	.1013	.9260-01	.9540-01	.2457-02	.2019-02	.2335-02	1.393	9.925	560.5
151	32.000	.60000	833.00	.8730-01	.7140-01	.8260-01	.2135-02	.1747-02	.2020-02	1.202	8.042	562.1
151	32.000	.70000	834.00	.8500-01	.6000-01	.8050-01	.2080-02	.1702-02	.1968-02	1.172	8.926	561.6
151	32.000	.80000	835.00	.5100-01	.5100-01	.6000-01	.1550-02	.1270-02	.1467-02	.6780	6.264	558.7
151	32.000	.90000	836.00	.5500-01	.4500-01	.5380-01	.1371-02	.1125-02	.1316-02	.7820	5.773	555.1
151	32.000	.95000	837.00	.5500-01	.5500-01	.6470-01	.1639-02	.1345-02	.1582-02	.9250	7.151	554.3
151	32.000	.97500	838.00	.5500-01	.5500-01	.6320-01	.1595-02	.1309-02	.1545-02	.9110	7.206	554.7
151	32.000	1.0150	839.00	.3750-01	.3090-01	.3510-01	.1595-02	.1309-02	.1545-02	.5310	4.291	548.5
151	32.000	1.0300	840.00	.4150-01	.3410-01	.3870-01	.1015-02	.6346-03	.9472-03	.5570	4.579	547.2
151	32.000	1.0450	841.00	.4000-01	.3250-01	.3730-01	.9779-03	.8037-03	.9125-03	.5640	4.326	548.1
151	32.000	1.0600	842.00	.930-01	.3230-01	.3670-01	.9522-03	.7913-03	.8979-03	.5570	4.586	546.5
152	35.000	.50000-01	115.00	.1335	.1098	.1335	.3255-02	.2687-02	.3255-02	1.905	12.12	545.5
152	35.000	.20000	110.00	.1194	.9790-01	.1194	.2920-02	.2356-02	.2920-02	1.675	16.87	555.2
152	39.000	.10000-00	116.00	.1065	.8770-01	.1065	.2605-02	.2144-02	.2605-02	1.521	3.672	545.3
152	40.000	.70000-01	121.00	.7550-01	.6230-01	.7550-01	.1849-02	.1523-02	.1849-02	1.083	6.899	543.1
152	40.000	.15000	111.00	.1940	.9530-01	.1940	.4745-02	.3933-02	.4745-02	2.721	20.09	555.5
152	40.000	.20000	112.00	.1172	.9530-01	.1172	.2858-02	.2333-02	.2858-02	1.643	18.19	556.0
152	42.500	.50000-01	127.00	.9220-01	.7530-01	.9220-01	.2256-02	.1858-02	.2256-02	1.321	8.923	543.3
152	45.000	.15000	117.00	.9150-01	.7530-01	.9150-01	.2239-02	.1842-02	.2239-02	1.305	7.640	546.1
151	45.000	.95000	969.00	.1000-03	.8000-03	.1000-03	.3712-03	.3059-03	.3712-03	.2170	1.615	540.4
151	45.000	.95000	973.00	.1000-03	.8000-03	.1000-03	.2516-04	.2074-04	.2516-04	.1500-01	.1100	538.1
151	45.000	.97500	978.00	.1000-03	.8000-03	.1000-03	.2826-04	.2330-04	.2826-04	.1700-01	.1240	537.6
152	51.000	.20000	118.00	.4850-01	.4000-01	.4850-01	.1187-02	.9779-03	.1187-02	.6950	4.424	543.7
152	60.000	.50000-01	131.00	.3000-01	.2470-01	.3000-01	.7330-03	.6045-03	.7330-03	.4320	2.927	539.0
152	67.500	.20000	129.00	.2930-01	.2330-01	.2930-01	.7099-03	.5647-03	.7099-03	.4160	3.089	543.2
151	75.000	.97500	977.00	.7000-03	.6000-03	.7000-03	.1667-04	.1375-04	.1667-04	.1000-01	.7300-01	537.6
151	85.000	.97500	976.00	.8000-03	.7000-03	.8000-03	.2015-04	.1662-04	.2015-04	.1200-01	.8800-01	537.4
152	105.00	.40100	135.00	.2230-01	.1970-01	.2230-01	.5855-03	.4822-03	.5855-03	.3430	2.647	543.3
152	105.00	.50100	136.00	.2220-01	.1830-01	.2220-01	.5432-03	.4472-03	.5432-03	.3180	2.526	544.4
152	105.00	.60100	137.00	.1130-01	.9300-02	.1130-01	.2766-03	.2278-03	.2766-03	.1620	1.289	543.3
152	105.00	.70100	138.00	.4400-02	.3500-02	.4400-02	.1093-03	.8524-04	.1093-03	.6400-01	.5070	541.5
152	105.00	.80000	139.00	.6000-03	.5000-03	.6000-03	.1557-04	.1234-04	.1557-04	.9000-02	.7300-01	538.9
152	113.00	.60100	146.00	.2120-01	.1750-01	.2120-01	.5195-03	.4279-03	.5195-03	.3040	2.422	543.2
152	116.00	.60100	147.00	.1810-01	.1500-01	.1810-01	.4422-03	.3643-03	.4422-03	.2590	2.063	543.1
152	116.00	.75100	148.00	.2400-02	.2000-02	.2400-02	.5861-04	.4834-04	.5861-04	.3500-01	.2760	538.6
152	120.00	.10000-00	132.00	.7600-02	.6300-02	.7600-02	.1857-03	.1531-03	.1857-03	.1030	.6610	539.5
152	120.00	.80000	247.00	.1600-02	.1300-02	.1600-02	.3915-04	.3148-04	.3915-04	.2300-01	.1860	537.0
152	120.00	.82900	248.00	.6000-02	.5000-02	.6000-02	.1476-03	.1218-03	.1476-03	.8700-01	.7200	537.8

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1805)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
152	120.00	.86200	249.00	.9900-02	.8200-02	.9900-02	.2423-03	.2000-03	.2423-03	.1440	1.049	536.6
152	130.00	.80500	253.00	.1800-02	.1500-02	.1800-02	.4512-04	.3723-04	.4512-04	.2700-01	.2140	536.7
152	130.00	.82900	254.00	.7700-02	.6400-02	.7700-02	.1683-03	.1554-03	.1683-03	.1110	.8630	537.2
152	130.00	.86200	255.00	.1290-01	.1070-01	.1290-01	.3162-03	.2609-03	.3162-03	.1870	1.543	537.2
152	135.00	.40100	142.00	.1900-02	.1600-02	.1900-02	.4631-04	.3818-04	.4631-04	.2700-01	.2110	539.7
152	135.00	.50100	143.00	.1900-02	.1600-02	.1900-02	.4671-04	.3850-04	.4671-04	.2800-01	.2260	540.1
152	135.00	.60100	144.00	.3500-02	.2900-02	.3500-02	.7046-04	.5746-04	.8547-04	.5000-01	.3890	540.3
152	135.00	.70100	145.00	.2600-02	.2100-02	.2600-02	.6243-04	.5149-04	.6243-04	.3700-01	.2940	539.0
152	140.00	.18000	85.000	.1400-02	.1100-02	.1400-02	.3406-04	.2807-04	.3406-04	.2000-01	.1540	541.3
152	140.00	.18000	87.000	.5500-02	.4500-02	.5500-02	.1362-03	.1123-03	.1362-03	.8000-01	.6170	540.1
152	145.00	.80500	259.00	.2900-02	.2400-02	.2900-02	.7043-04	.5812-04	.7043-04	.4600-01	.3230	536.4
153	145.00	.82900	261.00	.1610-01	.1330-01	.1610-01	.3938-03	.3253-03	.3938-03	.2360	1.775	535.3
153	150.00	.15000	65.000	.7600-02	.6300-02	.7600-02	.9264-04	.7654-04	.9264-04	.5500-01	.4580	535.3
153	150.00	.15000	66.000	.9500-02	.7900-02	.9500-02	.1652-03	.1534-03	.1652-03	.1100	.8150	540.5
153	150.00	.15000	67.000	.1000-03	.1000-03	.1000-03	.2355-03	.1942-03	.2355-03	.1390	1.032	540.1
153	155.00	.16000	77.000	.1110-01	.0900-02	.1110-01	.1646-05	.1256-05	.1646-05	.1000-02	.7000-02	536.6
153	155.00	.16000	78.000	.1220-01	.1000-02	.1220-01	.2714-03	.2237-03	.2714-03	.1600	1.198	540.5
153	155.00	.16000	79.000	.1510-01	.1220-01	.1510-01	.3705-03	.3053-03	.3705-03	.2170	1.732	541.9
153	155.00	.16000	81.000	.3630-01	.3130-01	.3630-01	.9469-03	.7816-03	.9469-03	.5560	4.001	542.6
153	155.00	.16000	82.000	.1500-01	.1220-01	.1500-01	.4639-03	.3863-03	.4639-03	.2750	2.047	541.7
153	155.00	.16000	83.000	.3450-01	.2850-01	.3450-01	.8452-03	.6982-03	.8452-03	.4960	3.564	542.6
151	160.00	.10000-01	59.000	.1420	.1167	.1420	.3474-02	.2855-02	.3474-02	2.002	14.83	548.8
151	160.00	.25000-01	60.000	.3660-01	.3160-01	.3660-01	.9447-03	.7777-03	.9447-03	.5500	3.956	542.8
151	160.00	.55000-01	61.000	.1710-01	.1410-01	.1710-01	.4191-03	.3452-03	.4191-03	.2450	1.560	541.3
151	160.00	.75000-01	62.000	.1250-01	.8700-02	.1250-01	.2577-03	.2122-03	.2577-03	.1510	.9590	541.0
151	160.00	.10000-01	63.000	.1010-01	.8300-02	.1010-01	.2464-03	.2030-03	.2464-03	.1440	.9440	541.1
151	160.00	.12500	64.000	.1460-01	.1220-01	.1460-01	.3631-03	.2931-03	.3631-03	.2120	1.479	540.9
151	160.00	.15000	65.000	.2600-01	.2140-01	.2600-01	.6355-03	.5235-03	.6355-03	.3710	2.588	541.0
151	160.00	.17000	66.000	.7140-01	.5870-01	.7140-01	.1746-02	.1437-02	.1746-02	1.016	5.658	543.4
151	160.00	.19000	67.000	.6910-01	.7250-01	.6910-01	.4874-03	.4015-03	.4874-03	1.248	6.945	546.0
151	160.00	.20000	69.000	.1990-01	.1640-01	.1990-01	.3942-04	.3249-04	.3942-04	.2850	1.767	540.3
151	160.00	.40100	72.000	.1610-02	.1300-02	.1610-02	.2631-04	.2309-04	.2631-04	.2300-01	.1970	538.7
151	160.00	.50000	73.000	.1100-02	.9000-03	.1100-02	.5592-04	.4609-04	.5592-04	.3300-01	.2700	538.5
151	160.00	.60100	74.000	.2300-02	.1900-02	.2300-02	.6063-04	.5000-04	.6063-04	.3600-01	.2850	537.4
151	160.00	.70100	75.000	.2000-02	.2000-02	.2000-02						

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 35.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
127	7.973	1.506	35.09	.0000	180.0	320.3	3400-01	1286.	93.80	1.495	3783.	.3007-04
128	7.973	1.508	35.07	.0000	180.0	323.0	3400-01	1291.	94.20	1.508	3791.	.3019-04
129	7.973	1.493	35.05	.0000	180.0	320.0	3400-01	1292.	94.30	1.494	3792.	.2989-04

RUN NUMBER	MU	LB-SEC /FT2	H-REF STU/ R FT2SEC	ST FP R =
127	.7533-07	.2337-01	.3321-01	0.0175
128	.7587-07	.3012-01	.3315-01	
129	.7532-07	.2999-01	.3332-01	

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISTO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
127	.0000	.0000	1.0000	.6882	.5634	.5022	.2063-01	.1883-01	.1883-01	.1805-01	11.97	65.56	577.0
127	.0000	.5000-02	2.0000	.7330	.5968	.5376	.2187-01	.1785-01	.1785-01	.1791-01	12.37	24.04	593.9
127	.0000	.1000-01	3.0000	.6345	.5182	.5294	.1902-01	.1553-01	.1553-01	.1587-01	10.89	72.05	584.2
127	.0000	.2000-01	4.0000	.4144	.3407	.3598	.1242-01	.1021-01	.1021-01	.1078-01	7.378	40.70	563.1
127	.0000	.3000-01	5.0000	.3179	.2617	.2814	.9527-02	.7944-02	.7944-02	.8434-02	5.709	31.58	557.9
127	.0000	.4000-01	6.0000	.2653	.2187	.2379	.7951-02	.6553-02	.6553-02	.7131-02	4.793	26.56	554.3
127	.0000	.5000-01	7.0000	.2520	.2072	.2278	.7554-02	.6210-02	.6210-02	.6829-02	4.489	30.02	562.8
127	.0000	.6000-01	8.0000	.2549	.2008	.2322	.7640-02	.5455-02	.5455-02	.6059-02	4.567	28.85	559.4
127	.0000	.7000-01	9.0000	.2213	.1820	.2029	.6633-02	.4442-02	.4442-02	.4977-02	3.951	27.27	561.5
127	.0000	.8000-01	10.000	.1800	.1482	.1650	.5395-02	.3333-02	.3333-02	.3777-02	3.233	22.35	557.9
127	.0000	.9000-01	11.000	.1673	.1384	.1556	.4633-02	.3396-02	.3396-02	.3777-02	3.034	19.21	554.3
127	.0000	1.0000-03	12.000	.1537	.1265	.1454	.4633-02	.3396-02	.3396-02	.3777-02	2.776	16.63	554.3
127	.0000	1.2000	14.000	.1556	.1283	.1455	.4664-02	.3346-02	.3346-02	.3777-02	2.818	15.63	552.8
127	.0000	1.3000	15.000	.1369	.1129	.1282	.4104-02	.3383-02	.3383-02	.3777-02	2.474	14.43	554.2
127	.0000	14.000	16.000	.1261	.1040	.1182	.3779-02	.3115-02	.3115-02	.3544-02	2.281	14.45	553.6
127	.0000	16.000	18.000	.1317	.1086	.1239	.3948-02	.3253-02	.3253-02	.3710-02	2.378	14.63	554.9
127	.0000	17.000	19.000	.1313	.1082	.1235	.3935-02	.3241-02	.3241-02	.3701-02	2.366	14.97	555.8





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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DT/DT DEC. R /SEC	TW DEC. R
128	120.00	.86200	249.00	.1470-01	.1220-01	.1470-01	.4422-03	.3665-03	.4422-03	.2760	2.018	537.3
128	130.00	.80500	253.00	.3000-02	.2500-02	.3000-02	.9152-04	.7584-04	.9152-04	.2760	4.570	537.3
128	130.00	.82900	254.00	.8700-02	.7200-02	.8700-02	.2617-03	.2169-03	.2617-03	.1640	1.267	537.4
128	130.00	.86200	255.00	.2010-01	.1650-01	.2010-01	.6250-03	.5013-03	.6050-03	.3780	3.112	538.2
128	135.00	.40100	142.00	.1400-02	.1200-02	.1400-02	.4348-04	.3601-04	.4348-04	.2700-01	.2100	539.3
128	135.00	.50100	143.00	.500-02	.150-02	.1800-02	.5389-04	.4463-04	.5389-04	.3400-01	.2760	539.8
128	135.00	.60100	144.00	.2600-02	.2100-02	.2600-02	.7795-04	.6455-04	.7795-04	.4900-01	.3750	540.0
128	135.00	.70100	145.00	.3200-02	.2700-02	.3200-02	.1073-03	.8999-04	.7796-04	.6700-01	.5330	539.4
128	140.00	.15000	85.000	.6400-02	.5300-02	.6400-02	.9702-04	.8041-04	.9702-04	.6100-01	.4680	537.1
128	140.00	.19000	87.000	.7500-02	.6200-02	.7500-02	.1921-03	.1591-03	.1921-03	.1200	.9210	539.4
128	140.00	.25000	259.00	.4700-02	.3900-02	.4700-02	.4281-03	.3690-03	.4281-03	.1430	1.104	537.2
128	140.00	.30000	261.00	.7000-02	.5800-02	.7000-02	.1407-03	.1157-03	.1407-03	.6800-01	.7290	535.6
128	140.00	.35000	263.00	.1200-01	.1000-01	.1200-01	.3247-03	.2683-03	.3247-03	.2020	1.504	539.8
128	140.00	.40000	265.00	.5300-02	.4300-02	.5300-02	.2787-03	.2338-03	.2787-03	.1740	1.292	539.5
128	140.00	.45000	84.000	.1900-03	.1000-03	.1900-03	.2234-05	.1852-05	.2234-05	.1000-02	.1000-01	536.8
128	140.00	.50000	82.000	.1400-01	.1190-01	.1400-01	.4339-03	.3593-03	.4339-03	.2700	2.008	540.3
128	140.00	.55000	80.000	.1750-01	.1450-01	.1750-01	.5255-03	.4358-03	.5255-03	.3270	2.603	541.7
128	140.00	.60000	77.000	.4700-01	.3990-01	.4700-01	.1415-02	.1171-02	.1415-02	.6750	6.291	543.9
128	140.00	.65000	81.000	.1810-01	.1500-01	.1810-01	.5464-03	.4523-03	.5464-03	.3390	2.524	541.2
128	140.00	.70000	79.000	.4120-01	.3410-01	.4120-01	.1240-02	.1026-02	.1240-02	.7680	5.521	543.2
128	140.00	.75000	78.000	.1407	.1162	.1407	.4217-02	.3481-02	.4217-02	.2.565	19.100	548.9
127	140.00	.80000	59.000	.3230-01	.3000-01	.3230-01	.1087-02	.8990-03	.1087-02	.6690	4.809	542.1
127	140.00	.85000	60.000	.1650-01	.1370-01	.1650-01	.4975-03	.4116-03	.4975-03	.3070	1.954	540.9
127	140.00	.90000	61.000	.1040-01	.8500-02	.1040-01	.3116-03	.2578-03	.3116-03	.1920	1.225	540.5
127	140.00	.95000	62.000	.1150-01	.9500-02	.1150-01	.3434-03	.2841-03	.3434-03	.2120	1.388	541.1
127	140.00	.10000	63.000	.1210-01	.1000-01	.1210-01	.3614-03	.2990-03	.3614-03	.2230	1.551	541.4
127	140.00	.10000	64.000	.3220-01	.2660-01	.3220-01	.9638-03	.7972-03	.9638-03	.5930	4.131	542.1
127	140.00	.10000	65.000	.7940-01	.6560-01	.7940-01	.2379-02	.1965-02	.2379-02	1.449	8.056	548.0
127	140.00	.10000	66.000	.1041	.8590-01	.1041	.3119-02	.2576-02	.3119-02	1.901	10.57	547.7
127	140.00	.10000	67.000	.1830-01	.1500-01	.1830-01	.5451-03	.4510-03	.5451-03	.3360	2.084	540.4
127	140.00	.10000	69.000	.1700-02	.1400-02	.1700-02	.5050-04	.4160-04	.5050-04	.3100-01	.2570	538.5
127	140.00	.10000	72.000	.1500-02	.1200-02	.1500-02	.5701-04	.4720-04	.5701-04	.3000-01	.3000	538.5
127	140.00	.10000	73.000	.1500-02	.1200-02	.1500-02	.4618-04	.3824-04	.4618-04	.2900-01	.2350	538.4
127	140.00	.10000	74.000	.1500-02	.1300-02	.1500-02	.5652-04	.4681-04	.5652-04	.3500-01	.2800	537.4
127	140.00	.10000	75.000	.1900-02	.1600-02	.1900-02						

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1805)

FUSELAGE

PARAMETRIC DATA

ALPHA = 35.00 BETA = .0000 ELEVTR = .0000 SPDRBK = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
97	7.980	2.007	35.11	.0000	180.0	431.8	.4500-01	1293.	94.10	2.004	3793.	.4008-04
98	7.980	2.013	35.10	.0000	180.0	433.5	.4500-01	1293.	94.20	2.012	3794.	.4021-04
99	7.980	2.012	35.11	.0000	180.0	433.3	.4500-01	1293.	94.10	2.011	3794.	.4020-04

RUN NUMBER	MU LB-SEC /FT2	REF BTU/R FT2SEC	ST FR R =
97	.7576-07	.3473-0	0.0175
98	.7582-07	.3480-01	.2378-01
99	.7579-07	.3479-01	.2873-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NC	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(19T0) BTU/R FT2SEC	H(1T0) BTU/R FT2SEC	H(1TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
97	.0000	.0000	1.0000	.5870	.5625	.6013	.2386-01	.1954-01	.2088-01	13.93	76.23	579.4
97	.0000	.5000-02	2.0000	.7248	.5897	.5905	.2517-01	.2048-01	.2051-01	14.20	96.14	599.4
97	.0000	.1000-01	3.0000	.1104	.5229	.5341	.2224-01	.1816-01	.1855-01	12.79	84.43	588.4
97	.0000	.2000-01	4.0000	.4.78	.3437	.3629	.1451-01	.1194-01	.1260-01	8.708	48.04	563.1
97	.0000	.3000-01	5.0000	.3125	.2577	.2769	.1086-01	.8949-02	.9617-02	6.584	36.43	556.9
97	.0000	.4000-01	6.0000	.2592	.2139	.2326	.9002-02	.7430-02	.6073-02	5.500	30.51	552.3
97	.0000	.5000-01	7.0000	.2491	.2049	.2306	.8648-02	.7117-02	.7821-02	5.196	34.75	562.5
97	.0000	.6000-01	8.0000	.2531	.2055	.2306	.8766-02	.7241-02	.8003-02	5.315	33.59	558.5
97	.0000	.7000-01	9.0000	.2193	.1803	.2009	.7607-02	.6263-02	.6778-02	4.581	31.52	561.1
97	.0000	.8000-01	10.0000	.1723	.1475	.1651	.6213-02	.5122-02	.5734-02	3.770	26.08	556.5
97	.0000	.9000-01	11.0000	.1676	.1393	.1553	.5320-02	.4604-02	.5334-02	3.558	22.54	552.4
97	.0000	.1000-00	12.0000	.1544	.1275	.1437	.5364-02	.4427-02	.4990-02	3.278	19.65	552.2
97	.0000	.13000	13.0000	.1473	.1218	.1378	.5117-02	.4239-02	.4787-02	3.150	17.51	547.8
97	.0000	.13000	14.0000	.1350	.1123	.1274	.4724-02	.3501-02	.4426-02	2.834	16.91	550.7
97	.0000	.14000	15.0000	.1250	.1032	.1172	.4338-02	.3583-02	.4070-02	2.652	16.89	549.7
97	.0000	.15000	16.0000	.1190	.0957	.1094	.4446-02	.3571-02	.4183-02	2.721	16.78	551.2
97	.0000	.16000	17.0000	.1130	.0974	.1225	.4520-02	.3731-02	.4254-02	2.762	17.51	552.1

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(ISTO) BTU/ R FT2SEC	H(UTO) BTU/ R FT2SEC	H(ITA) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
97	.00000	.18000	20.000	.1295	.1069	.1220	.4497-02	.3712-02	.4236-02	2.747	17.41	552.5
97	.00000	.19000	21.000	.1264	.1044	.1192	.4390-02	.3626-02	.4141-02	2.693	17.09	549.9
97	.00000	.20000	22.000	.1237	.1021	.1168	.4294-02	.3545-02	.4056-02	2.626	16.65	551.8
97	.00000	.22500	23.000	.1171	.9670-01	.1109	.4066-02	.3357-02	.3851-02	2.488	15.78	551.5
97	.00000	.25000	24.000	.1120	.9250-01	.1053	.3891-02	.3213-02	.3692-02	2.381	15.10	551.9
97	.00000	.30000	30.000	.1038	.8570-01	.9850-01	.3606-02	.2977-02	.3421-02	2.205	13.98	555.2
97	.00000	.35000	35.000	.1053	.8690-01	.9990-01	.3650-02	.3017-02	.3470-02	2.225	14.08	555.5
97	.00000	.40000	40.000	.1048	.8540-01	.9940-01	.3640-02	.3001-02	.3452-02	2.212	14.41	555.5
97	.00000	.45000	45.000	.9430-01	.7780-01	.6950-01	.3275-02	.2701-02	.3167-02	1.997	13.32	557.0
97	.00000	.50000	50.000	.8420-01	.6940-01	.7990-01	.2925-02	.2410-02	.2773-02	1.771	12.24	558.0
97	.00000	.55000	55.000	.8150-01	.6710-01	.7730-01	.2831-02	.2331-02	.2684-02	1.707	12.57	560.6
97	.00000	.60000	60.000	.7310-01	.6020-01	.6930-01	.2538-02	.2091-02	.2406-02	1.529	11.26	560.6
97	.00000	.65000	65.000	.7300-01	.5930-01	.6850-01	.2510-02	.2065-02	.2379-02	1.508	11.09	562.6
97	.00000	.70000	70.000	.7300-01	.5930-01	.6850-01	.2510-02	.2073-02	.2397-02	1.513	11.52	562.6
97	.00000	.75000	75.000	.6800-01	.6580-01	.7580-01	.2778-02	.2286-02	.2633-02	1.671	12.29	561.9
97	.00000	.80000	80.000	.9370-01	.7720-01	.8990-01	.3255-02	.2680-02	.3086-02	1.960	14.42	561.4
97	.00000	.85000	85.000	.9300-01	.7930-01	.9200-01	.3332-02	.2744-02	.3194-02	2.010	15.31	560.3
97	.00000	.90000	90.000	.1301	.8280-01	.9620-01	.3477-02	.2857-02	.3342-02	2.113	15.10	555.6
97	.00000	.95000	95.000	.8460-01	.6980-01	.8160-01	.2939-02	.2426-02	.2832-02	1.795	14.74	552.7
97	.00000	.97500	97.500	.9440-01	.7780-01	.9140-01	.3076-02	.2539-02	.2972-02	1.877	15.42	553.2
97	.00000	1.00000	100.000	.7020-01	.5820-01	.6830-01	.2439-02	.2021-02	.2371-02	1.525	11.36	538.1
97	.00000	1.02500	102.500	.7160-01	.5930-01	.6950-01	.2485-02	.2051-02	.2417-02	1.559	11.63	536.0
97	.00000	1.04500	104.500	.6820-01	.5730-01	.6730-01	.2403-02	.1992-02	.2337-02	1.503	11.99	538.0
97	.00000	1.06000	106.000	.6820-01	.5730-01	.6730-01	.2403-02	.1992-02	.2337-02	1.503	11.99	538.0
97	.00000	1.07000	107.000	.5300-02	.4400-02	.5300-02	.1825-03	.1517-03	.1825-03	1.160	7.010	530.4
97	.00000	1.08000	108.000	.1120-01	.9300-02	.1120-01	.3906-03	.3246-03	.3906-03	2.480	1.548	528.1
97	.00000	1.09000	109.000	.9200-02	.7600-02	.9200-02	.3184-03	.2644-03	.3184-03	2.020	1.244	529.6
97	.00000	1.10000	110.000	.9750-01	.6030-01	.9240-01	.3387-02	.2783-02	.3211-02	2.041	16.10	560.9
97	.00000	1.11000	111.000	.9950-01	.7480-01	.8620-01	.3158-02	.2599-02	.2993-02	1.894	14.92	563.6
97	.00000	1.12000	112.000	.6180-01	.5080-01	.5550-01	.2145-02	.1755-02	.2037-02	1.287	11.36	563.1
97	.00000	1.13000	113.000	.5300-01	.4400-01	.6050-01	.2551-02	.2430-02	.2797-02	1.779	13.11	560.3
97	.00000	1.14000	114.000	.8500-01	.7010-01	.8170-01	.2951-02	.2434-02	.2836-02	1.797	14.23	554.3
97	.00000	1.15000	115.000	.2295	.1834	.2295	.7986-02	.6591-02	.7986-02	4.883	28.51	552.5
97	.00000	1.16000	116.000	.1458	.1205	.1458	.5075-02	.4193-02	.5075-02	3.121	19.81	549.1
97	.00000	1.17000	117.000	.1175	.9690-01	.1175	.4082-02	.3366-02	.4082-02	2.481	18.31	555.6
97	.00000	1.18000	118.000	.1315	.1035	.1315	.4559-02	.3769-02	.4559-02	2.781	20.54	554.7
97	.00000	1.19000	119.000	.1255	.1045	.1255	.4394-02	.3631-02	.4394-02	2.701	20.02	548.6
97	.00000	1.20000	120.000	.2333	.1929	.2333	.8121-02	.6714-02	.8121-02	5.012	27.87	546.8
97	.00000	1.21000	121.000	.9200-02	.8200-02	.9200-02	.3444-03	.2862-03	.3444-03	2.190	1.365	528.2
97	.00000	1.22000	122.000	.2424	.2000	.2424	.8437-02	.6953-02	.8437-02	5.139	32.53	554.9
97	.00000	1.23000	123.000	.1617	.1333	.1617	.5629-02	.4641-02	.5629-02	3.418	30.26	556.8

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1(ISO) BTU/ R FT2SEC	H1(TO) BTU/ R FT2SEC	H1(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
97	30.000	.92500	970.00	.1164	.9620-01	.1164	.4042-02	.3341-02	.4042-02	2.488	16.44	547.8
97	30.000	.95000	974.00	.1434	.1183	.1434	.4979-02	.4108-02	.4979-02	3.038	22.45	553.2
97	30.000	.97500	979.00	.8050-01	.6680-01	.8050-01	.2795-02	.2320-02	.2795-02	1.763	13.17	532.4
98	31.500	.20000	108.00	.1114	.9190-01	.1114	.3976-02	.3198-02	.3976-02	2.367	23.86	553.2
97	32.000	.40000	831.00	.1204	.9930-01	.1142	.4131-02	.3448-02	.3965-02	2.543	17.61	555.1
97	32.000	.50000	832.00	.1015	.8350-01	.9620-01	.3524-02	.2901-02	.3340-02	2.120	15.10	561.8
97	32.000	.60000	833.00	.6670-01	.7132-01	.8220-01	.3211-02	.2477-02	.2953-02	1.805	12.07	563.7
97	32.000	.70000	834.00	.7270-01	.5980-01	.6890-01	.2526-02	.2077-02	.2393-02	1.513	11.50	564.3
97	32.000	.80000	835.00	.7710-01	.6350-01	.7310-01	.2676-02	.2204-02	.2537-02	1.616	11.52	559.6
97	32.000	.90000	836.00	.6640-01	.7130-01	.8300-01	.3001-02	.2477-02	.2884-02	1.833	13.55	552.7
97	32.000	.95000	837.00	.1036	.8660-01	.1001	.3597-02	.2972-02	.3477-02	2.212	16.96	548.4
97	32.000	.97500	838.00	.1072	.8860-01	.1039	.3723-02	.3077-02	.3608-02	2.231	18.19	548.0
97	32.000	1.0150	839.00	.7220-01	.5920-01	.6750-01	.2506-02	.2076-02	.2345-02	1.564	12.70	539.2
97	32.000	1.0300	840.00	.7300-01	.6050-01	.6830-01	.2535-02	.2102-02	.2373-02	1.591	12.48	536.0
97	32.000	1.0450	841.00	.6140-01	.6740-01	.7610-01	.2826-02	.2342-02	.2645-02	1.770	13.65	536.9
97	32.000	1.0600	842.00	.6550-01	.5440-01	.6140-01	.2276-02	.1838-02	.2131-02	1.431	11.87	534.5
98	35.000	.50000-01	115.00	.1307	.1082	.1307	.4548-02	.3765-02	.4548-02	2.830	18.04	541.7
98	35.000	.60000	116.00	.1194	.9850-01	.1194	.4156-02	.3427-02	.4156-02	2.523	25.39	556.8
98	35.000	.70000	117.00	.1080	.8940-01	.1080	.3760-02	.3113-02	.3760-02	2.339	14.90	542.0
98	35.000	.80000-01	121.00	.7440-01	.6170-01	.7440-01	.2589-02	.2146-02	.2589-02	1.623	10.37	537.0
98	35.000	.90000	111.00	.1934	.1594	.1934	.6731-02	.5546-02	.5731-02	4.075	30.04	558.6
98	35.000	.95000-01	112.00	.1143	.9420-01	.1143	.3979-02	.3279-02	.3979-02	2.412	26.68	557.8
98	35.000	.97500	117.00	.9300-01	.7700-01	.9300-01	.3236-02	.2681-02	.3236-02	2.021	13.67	539.6
98	35.000	1.0000	969.00	.9170-01	.7600-01	.9170-01	.3192-02	.2644-02	.3192-02	1.990	11.69	540.6
97	35.000	.92500	973.00	.2540-01	.2110-01	.2540-01	.6824-03	.7338-03	.8224-03	.5630	4.225	524.8
97	35.000	.95000	978.00	.1900-02	.1600-02	.1900-02	.6591-04	.5483-04	.6591-04	.4200-01	.3160	524.0
97	35.000	.97500	978.00	.2100-02	.1800-02	.2100-02	.7460-04	.6207-04	.7460-04	.300-01	.3580	523.1
98	35.000	.99000-01	119.00	.4850-01	.4020-01	.4850-01	.1689-02	.1400-02	.1689-02	.059	6.769	536.6
98	35.000	.99000	121.00	.2910-01	.2410-01	.2910-01	.1011-02	.8397-03	.1011-02	.6400	4.345	531.7
98	35.000	.99500	128.00	.2840-01	.2350-01	.2840-01	.9874-03	.8192-03	.9874-03	.6220	4.640	534.3
97	35.000	.97500	977.00	.1200-02	.1000-02	.1200-02	.4176-04	.3474-04	.4176-04	.2700-01	.2900	523.5
98	35.000	.95000	976.00	.9000-03	.7000-03	.9000-03	.3023-04	.2514-04	.3023-04	.1900-01	.1450	523.9
98	35.000	.93000	135.00	.2110-01	.1750-01	.2110-01	.7332-03	.6089-03	.7332-03	.4650	3.614	530.3
98	35.000	.91000	136.00	.2230-01	.1850-01	.2230-01	.7749-03	.6433-03	.7749-03	.4900	3.927	531.7
98	35.000	.89000	137.00	.1570-01	.1310-01	.1570-01	.5478-03	.4549-03	.5478-03	.3470	2.780	531.1
98	35.000	.87000	139.00	.4910-02	.4100-02	.4900-02	.1714-03	.1423-03	.1714-03	.1090	.8720	529.8
98	35.000	.85000	139.00	.6300-03	.7000-03	.6000-03	.2840-04	.2351-04	.2840-04	.1800-01	.1450	526.8
98	35.000	.83000	139.00	.5200-01	.4000-01	.5200-01	.1045-02	.8570-03	.1045-02	.6600	5.284	532.4
98	35.000	.81000	147.00	.2620-01	.2030-01	.2620-01	.8770-03	.7280-03	.8770-03	.5540	4.439	532.2
98	35.000	.79000	148.00	.2300-02	.2300-02	.2300-02	.9836-04	.8172-04	.9836-04	.6300-01	.5020	528.5
98	35.000	.77000	132.00	.2300-02	.2300-02	.2300-02	.7100-02	.2484-03	.2484-03	.1580	.9560	529.6
98	35.000	.75000	247.00	.3400-02	.2600-02	.3400-02	.1186-03	.9664-04	.1186-03	.7600-01	.6280	526.5
98	35.000	.73000	248.00	.2100-01	.1750-01	.2100-01	.7315-03	.6077-03	.7315-03	.4640	3.847	529.2

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

UN #	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO) BTU/ R FT2SEC	H17O) BTU/ R FT2SEC	H1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
98	120.00	.86200	249.00	.1600-01	.1330-01	.1600-01	.5577-03	.4635-03	.5577-03	.3550	2.612	526.6
98	130.00	.80500	253.00	.5000-02	.4100-02	.5000-02	.1724-03	.1433-03	.1724-03	.1100	.8840	526.4
98	130.00	.82900	254.00	.1470-01	.1220-01	.1470-01	.5112-03	.4249-03	.5112-03	.3250	2.536	527.4
99	130.00	.86200	255.00	.2640-01	.2200-01	.2640-01	.9195-03	.7640-03	.9195-03	.5840	4.845	528.4
98	135.00	.40100	142.00	.1500-02	.1300-02	.1500-02	.5310-04	.4416-04	.5310-04	.3400-01	.2640	525.6
98	135.00	.50100	143.00	.1800-02	.1500-02	.1800-02	.6101-04	.5073-04	.6101-04	.3900-01	.3230	525.7
98	135.00	.60100	144.00	.2700-02	.2300-02	.2700-02	.9437-04	.7845-04	.9437-04	.6000-01	.4690	526.5
98	135.00	.70100	145.00	.5200-02	.4300-02	.5200-02	.1799-03	.1495-03	.1799-03	.1150	.9210	526.6
98	140.00	.16000	85.000	.6800-02	.5700-02	.6800-02	.2373-03	.1972-03	.2373-03	.1510	1.171	527.1
98	140.00	.15500	87.000	.7300-02	.6100-02	.7300-02	.2534-03	.2106-03	.2534-03	.1610	1.248	527.9
98	145.00	.20500	259.00	.5300-02	.4400-02	.5300-02	.3123-03	.2596-03	.3123-03	.1990	1.553	526.1
99	145.00	.86200	261.00	.5300-02	.4400-02	.5300-02	.1840-03	.1530-03	.1840-03	.1180	.9760	525.0
99	150.00	.16000	55.000	.1310-01	.1090-01	.1310-01	.4546-03	.3776-03	.4546-03	.2880	2.158	529.4
98	150.00	.16000	84.000	.1070-01	.8500-02	.1070-01	.3724-03	.3094-03	.3724-03	.2370	1.771	528.6
98	150.00	.13000	82.000	.3000-03	.2000-03	.3000-03	.9284-05	.7707-05	.9284-05	.6000-02	.4400-01	531.8
98	155.00	.16000	80.000	.1750-01	.1460-01	.1750-01	.6099-03	.5065-03	.6099-03	.3870	2.89	530.6
98	160.00	.16000	77.000	.1740-01	.1450-01	.1740-01	.6071-03	.5041-03	.6071-03	.3840	3.080	530.6
98	160.00	.15000	81.000	.5050-01	.4190-01	.5050-01	.1757-02	.1453-02	.1757-02	1.106	7.985	534.6
98	175.00	.16500	79.000	.1500-01	.1590-01	.1900-01	.6606-03	.5487-03	.6606-03	.4130	3.130	530.3
98	175.00	.17500	78.000	.4780-01	.3570-01	.4780-01	.1665-02	.1381-02	.1665-02	1.059	7.586	533.3
97	180.00	.10200-01	53.000	.1355	.1122	.1355	.4711-02	.3895-02	.4711-02	2.938	21.58	545.9
97	180.00	.2500-01	60.000	.3530-01	.3010-01	.3630-01	.1260-02	.1045-02	.1260-02	.7900	5.694	535.9
97	180.00	.5000-01	61.000	.1580-01	.1310-01	.1580-01	.5487-03	.4552-03	.5487-03	.3450	2.210	533.8
97	180.00	.7500-01	62.000	.1050-01	.8700-02	.1050-01	.3648-03	.3028-03	.3648-03	.2300	1.474	532.4
97	180.00	.10000-00	63.000	.1280-01	.1070-01	.1280-01	.4461-03	.3703-03	.4461-03	.4820	1.856	532.1
97	180.00	.12500	64.000	.2090-01	.1740-01	.2090-01	.7265-03	.6031-03	.7265-03	.4590	3.212	532.1
97	180.00	.15000	65.000	.3470-01	.2680-01	.3470-01	.1205-02	.9999-03	.1205-02	.7600	5.323	532.4
97	180.00	.16000	66.000	.8640-01	.7150-01	.8640-01	.3002-02	.2488-02	.3002-02	1.877	10.49	537.9
97	180.00	.17000	67.000	.1079	.8340-01	.1079	.3747-02	.3104-02	.3747-02	2.339	13.06	538.9
97	180.00	.17000	68.000	.1770-01	.1470-01	.1770-01	.6135-03	.5097-03	.6135-03	.3830	2.428	528.8
97	180.00	.20000	69.000	.2900-02	.1700-02	.2900-02	.7019-04	.5825-04	.7019-04	.4500-01	.840	526.2
97	180.00	.40100	72.000	.1500-02	.1200-02	.1500-02	.5132-04	.4267-04	.5132-04	.3300-01	.2810	525.4
97	180.00	.50000	73.000	.2400-02	.2000-02	.2400-02	.8454-04	.7030-04	.8454-04	.5400-01	.4480	525.4
97	180.00	.60100	74.000	.2000-02	.1700-02	.2000-02	.7107-04	.5911-04	.7107-04	.4500-01	.3650	524.4
97	180.00	.70100	75.000	.2000-02	.1700-02	.2000-02						

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FUSELAGE

PARAMETRIC DATA

ALPHA = 35.00 BETA = .0000 ELEVT = .0000 SPD3RK = .0000  
 BRFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
76	7.930	2.507	35.10	.0000	180.0	544.5	5510-01	1297.	94.20	2.513	3801.	.5006-04
77	7.930	2.500	35.03	.0000	180.0	545.9	5500-01	1302.	94.50	2.519	3807.	.5001-04
78	7.930	2.494	35.03	.0000	180.0	547.4	5700-01	1307.	94.90	2.526	3814.	.4997-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FP R =
76	0.3-SEC	0.0175	
77	0.3-SEC	0.0175	
78	0.3-SEC	0.0175	

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
76	.0000	.0000	1.000	.5853	.5508	.5998	.2671-01	.2182-01	.2334-01	15.48	84.36	588.0
77	.0000	.0000	2.000	.7289	.5913	.5922	.2837-01	.2301-01	.2305-01	15.82	106.6	610.1
78	.0000	.0000	3.000	.6243	.5084	.5195	.2429-01	.1979-01	.2022-01	13.83	90.90	598.3
79	.0000	.0000	4.000	.4189	.3441	.3634	.1630-01	.1339-01	.1414-01	9.741	53.55	570.1
80	.0000	.0000	5.000	.3103	.2555	.2747	.1208-01	.0944-02	.1069-01	7.305	40.30	562.9
81	.0000	.0000	6.000	.2515	.2124	.2310	.1003-01	.0864-02	.0993-02	6.112	33.80	557.9
82	.0000	.0000	7.000	.2515	.2053	.2274	.0786-02	.0653-02	.0851-02	5.852	39.08	563.1
83	.0000	.0000	8.000	.2183	.1795	.2001	.0495-02	.0383-02	.0512-02	5.093	37.18	564.6
84	.0000	.0000	9.000	.1779	.1455	.1642	.0325-02	.0270-02	.0328-02	4.193	35.07	567.7
85	.0000	.0000	10.000	.1575	.1322	.1553	.0281-02	.0243-02	.0342-02	3.979	25.16	557.5
86	.0000	.0000	11.000	.1575	.1258	.1430	.0281-02	.0243-02	.0342-02	3.652	21.84	557.2
87	.0000	.0000	12.000	.1415	.1161	.1315	.0281-02	.0243-02	.0342-02	3.368	18.68	552.1
88	.0000	.0000	13.000	.1300	.1105	.1255	.0281-02	.0243-02	.0342-02	3.193	18.61	555.6
89	.0000	.0000	14.000	.1262	.1042	.1184	.0281-02	.0243-02	.0342-02	3.077	19.06	554.6
90	.0000	.0000	15.000	.1233	.1067	.1216	.0281-02	.0243-02	.0342-02	3.077	18.92	556.4
91	.0000	.0000	16.000	.1233	.1071	.1222	.0281-02	.0243-02	.0342-02	3.085	19.50	557.4

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AEDC VKF V41B-57A (OH-49B) COLLATION DEC\*

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1805)

RUN NUMBER	ETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19T0) BTU/R F12SEC	H1T0) BTU/R F12SEC	H1TAN) BTU/R F12SEC	QDOT BTU/ F12SEC	DTWOT DEG. R /SEC	TW DEG. R
76	00000	.18000	20.000	.1330	.1096	.1252	.5175-02	.4267-02	.4874-02	3.155	19.94	558.1
76	00000	.19000	21.000	.1247	.1029	.1176	.4853-02	.4004-02	.4577-02	2.972	18.81	555.3
76	00000	.20000	22.000	.1243	.1025	.1174	.4837-02	.3989-02	.4568-02	2.953	18.67	557.3
76	00000	.22500	23.000	.1162	.9590-01	.1101	.4524-02	.3733-02	.4284-02	2.770	17.53	555.4
76	00000	.25000	801.00	.1117	.9220-01	.1060	.4348-02	.3588-02	.4124-02	2.661	16.84	555.7
76	00000	.30000	802.00	.1012	.8350-01	.9600-01	.3940-02	.3249-02	.3737-02	2.122	15.18	558.1
76	00000	.35000	823.00	.1045	.8610-01	.9910-01	.4068-02	.3350-02	.3857-02	2.464	15.54	562.1
76	00000	.40000	804.00	.1031	.8490-01	.9770-01	.4011-02	.3302-02	.3802-02	2.425	15.74	563.2
76	00000	.45000	805.00	.1031	.8490-01	.9770-01	.4011-02	.3302-02	.3802-02	2.177	14.55	564.7
76	00000	.50000	806.00	.8350-01	.6870-01	.7910-01	.3248-02	.2672-02	.3078-02	1.954	13.46	565.9
76	00000	.55000	807.00	.8260-01	.6790-01	.7830-01	.3214-02	.2642-02	.3045-02	1.924	14.11	569.1
76	00000	.60000	808.00	.7710-01	.6340-01	.7310-01	.3001-02	.2466-02	.2843-02	1.795	13.16	569.4
76	00000	.65000	809.00	.7730-01	.6350-01	.7320-01	.3009-02	.2471-02	.2850-02	1.792	13.12	572.2
76	00000	.70000	810.00	.8350-01	.6860-01	.7910-01	.3251-02	.2669-02	.3079-02	1.932	14.63	573.5
76	00000	.75000	811.00	.1702	.8220-01	.9490-01	.3693-02	.3200-02	.3652-02	2.321	17.00	572.2
76	00000	.80000	812.00	.1250	.1035	.1194	.4905-02	.4027-02	.4646-02	2.918	21.36	572.9
76	00000	.85000	813.00	.1360	.1116	.1302	.5231-02	.4344-02	.5068-02	3.150	23.86	572.4
76	00000	.90000	814.00	.1475	.1213	.1417	.5740-02	.4719-02	.5513-02	3.442	24.44	568.1
76	00000	.92500	815.00	.1313	.1081	.1265	.5110-02	.4205-02	.4922-02	3.082	25.17	564.6
76	00000	.95000	816.00	.1380	.1135	.1333	.5370-02	.4417-02	.5186-02	3.229	26.35	566.4
76	00000	.97500	817.00	.1520	.1249	.1471	.5915-02	.4661-02	.5726-02	3.542	28.66	569.0
76	00000	1.010	818.00	.1116	.9230-01	.1085	.4343-02	.3591-02	.4222-02	2.688	19.91	548.8
76	00000	1.0300	819.00	.1085	.8970-01	.1054	.4221-02	.3491-02	.4103-02	2.622	19.44	546.6
76	00000	1.0450	820.00	.1697	.9060-01	.1066	.4268-02	.3527-02	.4149-02	2.636	20.91	550.1
76	00000	1.0500	821.00	.9930-01	.8260-01	.9710-01	.5888-02	.3213-02	.3760-02	2.401	20.12	550.3
76	10.500	.15000	822.00	.4900-02	.4100-02	.4900-02	.1920-03	.1534-03	.1920-03	1.220	.7360	534.4
76	11.500	.20000	91.000	.1220-01	.1010-01	.1220-01	.4754-03	.3947-03	.4754-03	.3020	1.880	532.5
76	14.600	.30000-01	90.000	.9200-02	.7600-02	.9200-02	.5569-03	.2953-03	.3569-03	.2270	1.371	533.1
76	17.500	.40000	923.00	.9760-01	.8030-01	.9250-01	.3799-02	.3124-02	.3600-02	2.281	17.94	567.3
76	17.500	.50000	824.00	.9310-01	.7650-01	.8820-01	.3624-02	.2977-02	.3433-02	2.163	16.96	570.8
76	17.500	.60000	825.00	.6260-01	.5140-01	.5930-01	.2436-02	.2000-02	.2308-02	1.451	12.75	572.2
76	17.500	.70000	826.00	.8810-01	.7230-01	.8350-01	.3430-02	.2814-02	.3248-02	2.036	14.89	574.0
76	17.500	.80000	827.00	.1172	.9630-01	.1110	.4550-02	.3746-02	.4320-02	2.721	19.94	571.0
76	17.500	.90000	828.00	.1266	.1041	.1216	.4927-02	.4052-02	.4732-02	2.960	23.28	567.0
77	20.000	.10000-00	103.00	.2303	.1900	.2303	.8378-02	.7410-02	.8978-02	5.525	32.18	556.6
77	20.000	.15000	104.00	.1472	.1216	.1472	.5729-02	.4742-02	.5729-02	3.556	22.54	552.4
76	20.000	.22500	971.00	.1327	.1091	.1327	.5163-02	.4247-02	.5163-02	3.104	22.79	566.5
76	20.000	.35000	975.00	.1532	.1260	.1532	.5962-02	.4332-02	.5962-02	3.577	26.25	567.7
76	20.000	.47500	930.00	.1444	.1189	.1444	.5619-02	.4623-02	.5619-02	3.407	25.08	561.4
77	22.000	.50000-01	105.00	.2344	.1938	.2344	.9141-02	.7555-02	.9141-02	5.673	31.48	551.2
76	24.500	.60000	93.000	.1070-01	.8990-02	.1070-01	.4165-03	.3459-03	.4165-03	.2650	1.647	532.5
77	24.500	.10000-00	126.00	.2452	.2023	.2452	.9562-02	.7686-02	.9562-02	5.859	37.01	559.2
77	25.500	.15000	127.00	.1611	.1328	.1611	.6280-02	.5176-02	.6280-02	3.835	33.88	561.2

REPRODUCIBILITY OF THE  
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## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

'(V1805)

RUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAN)	H(9TO) BTU/R FT2SEC	H(10) BTU/R FT2SEC	H(TAH) BTU/R FT2SEC	ODOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TW DEG. R
76	30.000	.92500	970.00	.1204	.9930-01	.1204	.4687-02	.3855-02	.4687-02	2.861	21.10	557.3
76	30.000	.95000	974.00	.1251	.1252	.1521	.5919-02	.4871-02	.5919-02	3.571	26.24	564.5
76	30.000	.97500	979.00	.8070-01	.6890-01	.8070-01	.3141-02	.2602-02	.3141-02	1.967	14.63	541.5
77	31.500	.20000	108.00	.1103	.9100-01	.1103	.4299-02	.3547-02	.4299-02	2.641	26.56	557.6
76	32.000	.40000	831.00	.1178	.9700-01	.1117	.4584-02	.3775-02	.4346-02	2.774	19.13	562.6
76	32.000	.50000	832.00	.1230	.8450-01	.9780-01	.4007-02	.3293-02	.3797-02	2.399	17.02	569.1
76	32.000	.60000	833.00	.9100-01	.7470-01	.8510-01	.3540-02	.2906-02	.3353-02	2.105	14.00	573.1
76	32.000	.70000	834.00	.8500-01	.7050-01	.8130-01	.3342-02	.2742-02	.3165-02	1.980	14.98	575.2
76	32.000	.80000	835.00	.1612	.8200-01	.9530-01	.3940-02	.3237-02	.3733-02	2.354	16.69	570.3
76	32.000	.90000	836.00	.1212	.9370-01	.1124	.4715-02	.3880-02	.4529-02	2.841	20.87	565.2
76	32.000	.95000	837.00	.1427	.1175	.1378	.5533-02	.4573-02	.5363-02	3.362	25.59	582.3
76	32.000	.97500	838.00	.1507	.1241	.1460	.5666-02	.4828-02	.5690-02	2.541	27.89	564.0
76	32.000	1.0150	839.00	.1587	.8930-01	.1016	.4231-02	.3495-02	.3955-02	2.604	21.01	552.3
76	32.000	1.0300	840.00	.1573	.8370-01	.1033	.4174-02	.3452-02	.3903-02	2.589	20.20	547.6
76	32.000	1.0450	841.00	.1161	.9330-01	.1685	.4516-02	.3734-02	.4223-02	2.795	21.42	548.9
76	32.000	1.0600	842.00	.9280-01	.7680-01	.6580-01	.3612-02	.2939-02	.3379-02	2.249	18.54	545.2
77	35.000	.50000-01	115.00	.1312	.1055	.1312	.5115-02	.4234-02	.5115-02	3.203	20.37	545.8
77	35.000	.60000	110.00	.1203	.9320-01	.1203	.4632-02	.3666-02	.4632-02	2.861	28.71	562.2
77	35.000	.70000	116.00	.1060	.8790-01	.1050	.4135-02	.3425-02	.4135-02	2.600	16.56	543.1
77	40.000	.76000-01	121.00	.7470-01	.6190-01	.7470-01	.2911-02	.2414-02	.2911-02	1.838	11.72	540.6
77	40.000	.15000	111.00	.1993	.1642	.1993	.7763-02	.6401-02	.7763-02	4.732	34.81	562.8
77	40.000	.1163	112.00	.1163	.9580-01	.1163	.4535-02	.3736-02	.4535-02	2.763	30.49	562.6
77	42.500	.54000-01	127.00	.9450-01	.7820-01	.9450-01	.3655-02	.3032-02	.3655-02	2.314	15.62	544.0
77	45.000	.15000	117.00	.9180-01	.7600-01	.9180-01	.3578-02	.2959-02	.3578-02	2.251	13.21	542.8
76	45.000	.92500	969.00	.3270-01	.2320-01	.3270-01	.1160-02	.9799-03	.1160-02	7.500	5.604	532.0
76	45.000	.95000	973.00	.2271-02	.1830-02	.2200-02	.8455-04	.7027-04	.8455-04	5.400-01	4.404	529.0
76	45.000	.97500	978.00	.2030-02	.1600-02	.2000-02	.6330-04	.6330-04	.7620-04	4.900-01	3.650	528.2
76	51.000	.20000	118.00	.4750-01	.3940-01	.4750-01	.1851-02	.1535-02	.1851-02	1.172	7.477	538.9
77	60.000	.50000-01	131.00	.2740-01	.2270-01	.2740-01	.1067-02	.8653-03	.1067-02	6.800	4.611	535.0
77	60.000	.20000	122.00	.2880-01	.2397-01	.2880-01	.1121-02	.9309-03	.1121-02	7.120	5.309	536.7
76	75.000	.97500	977.00	.1200-02	.1020-02	.1200-02	.4594-04	.3819-04	.4594-04	2.900-01	2.200	528.5
76	75.000	.97500	976.00	.9500-03	.8000-03	.9000-03	.2929-04	.2929-04	.3524-04	2.300-01	1.690	528.7
77	103.00	.40100	135.00	.1930-01	.1650-01	.1930-01	.6426-03	.7738-03	.7738-03	4.930	3.829	534.2
77	105.00	.50100	136.00	.2410-01	.2020-01	.2410-01	.9385-03	.7789-03	.9385-03	5.970	4.768	536.3
77	105.00	.60100	137.00	.1750-01	.1460-01	.1750-01	.5678-03	.6841-03	.6841-03	4.350	3.477	536.1
77	105.00	.70100	139.00	.5300-02	.4400-02	.5300-02	.6841-03	.5678-03	.6841-03	4.350	3.477	536.1
77	105.00	.80000	146.00	.1760-02	.1400-02	.1760-02	.1156-04	.1156-04	.2056-04	1.310	1.050	533.8
77	105.00	.90000	147.00	.3570-01	.2950-01	.3570-01	.5417-04	.4200-01	.6515-04	8.830	7.053	538.0
77	116.00	.60100	148.00	.2350-01	.2450-01	.2950-01	.1151-02	.7300	.1151-02	5.834	5.834	531.4
77	116.00	.75100	149.00	.2300-02	.2000-02	.2400-02	.9546-04	.7933-04	.9546-04	6.100-01	4.900	531.4
77	120.00	.10000+00	132.00	.6700-02	.5000-02	.6700-02	.2608-03	.2167-04	.2608-03	1.670	1.010	532.3
77	120.00	.60000	247.00	.4900-02	.4100-02	.4900-02	.1911-03	.1588-03	.1911-03	1.220	1.012	531.7
77	120.00	.82500	248.00	.2510-01	.2450-01	.2510-01	.9773-03	.8117-03	.9773-03	6.240	5.154	533.8

(RV1805)

OH-498 (AEI ~ V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X'L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAW)	H(OTO) BTU/ R FT2SEC	H(OTO) BTU/ R FT2SEC	H(OTAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
77	121.00	.86200	249.00	.1500-01	.1250-01	.1500-01	.5867-03	.4876-03	.5867-03	.3760	2.758	530.8
77	130.00	.80500	253.00	.5600-02	.4600-02	.5600-02	.2174-03	.1807-03	.2174-03	.1390	1.117	531.2
77	130.00	.82900	254.00	.2430-01	.2010-01	.2430-01	.9455-03	.7854-03	.9455-03	.6040	4.688	533.3
77	136.00	.86200	255.00	.2930-01	.2430-01	.2930-01	.1141-02	.5787-03	.1141-02	.7290	6.025	533.2
77	135.00	.40100	142.00	.1400-02	.1200-02	.1400-02	.5539-04	.4605-04	.5539-04	.3600-01	.2770	529.1
77	135.00	.50100	143.00	.1300-02	.1100-02	.1300-02	.5123-04	.4259-04	.5123-04	.3300-01	.2730	529.7
77	135.00	.60100	144.00	.3700-02	.3100-02	.3700-02	.1451-03	.1205-03	.1451-03	.9300-01	.7240	530.5
77	140.00	.145.00	145.00	.1300-02	.1100-02	.1300-02	.2400-03	.1934-03	.2400-03	.1540	1.234	530.8
77	140.00	.18000	146.00	.1300-02	.1100-02	.1300-02	.2834-03	.2354-03	.2834-03	.1810	1.399	533.1
77	140.00	.19500	147.00	.7700-02	.6400-02	.7700-02	.3004-03	.2495-03	.3004-03	.1920	1.487	531.7
77	145.00	.80000	259.00	.6600-02	.5600-02	.6600-02	.3195-03	.2656-03	.3195-03	.2050	1.594	530.4
78	145.00	.82300	260.00	.7200-02	.6000-02	.7200-02	.2808-03	.2338-03	.2808-03	.1830	1.382	525.9
78	145.00	.86200	261.00	.5300-02	.4400-02	.5300-02	.2077-03	.1729-03	.2077-03	.1350	1.117	527.9
77	150.00	.15000	85.000	.1410-01	.1100-01	.1410-01	.5487-03	.4557-03	.5487-03	.3500	2.615	533.5
77	150.00	.16000	84.000	.1190-01	.1000-01	.1190-01	.4618-03	.3852-03	.4618-03	.2970	2.221	532.4
77	150.00	.19000	82.000	.1000-03	.1000-03	.1000-03	.7195-03	.5975-03	.7195-03	.4500	3.425	533.0
77	150.00	.16000	80.000	.1630-01	.1300-01	.1630-01	.4630-05	.3946-05	.4630-05	.3000-02	2.200-01	534.2
77	150.00	.18000	83.000	.1000-03	.1000-03	.1000-03	.5723-05	.4754-05	.5723-05	.4000-02	3.425	533.0
77	160.00	.8000	77.000	.2020-01	.1570-01	.2020-01	.7859-03	.6525-03	.7859-03	.5000	3.999	535.3
77	160.00	.15000	81.000	.5400-01	.4800-01	.5400-01	.2104-02	.1745-02	.2104-02	1.333	9.608	538.3
77	175.00	.15000	79.000	.1870-01	.1560-01	.1870-01	.7305-03	.6066-03	.7305-03	.4560	3.476	534.3
77	175.00	.17500	78.000	.5140-01	.4270-01	.5140-01	.2005-02	.1654-02	.2005-02	1.272	9.172	537.5
76	180.00	.10000-01	59.000	.1131	.1369	.1369	.5327-02	.4401-02	.5327-02	3.234	24.30	551.1
76	180.00	.25000-01	60.000	.3500-01	.2900-01	.3500-01	.1362-02	.1129-02	.1362-02	.8530	6.140	541.4
76	180.00	.50000-01	61.000	.1560-01	.1290-01	.1560-01	.6055-03	.5021-03	.6055-03	.3810	2.435	538.0
75	180.00	.75000-01	62.000	.1060-01	.8900-02	.1060-01	.4138-03	.3432-03	.4138-03	.2610	1.658	536.6
76	180.00	.10000+00	63.000	.1440-01	.1200-01	.1440-01	.5623-03	.4665-03	.5623-03	.3550	2.337	536.0
76	180.00	.12500	64.000	.2220-01	.1840-01	.2220-01	.8648-03	.7173-03	.8648-03	.5460	3.813	536.7
75	180.00	.15000	65.000	.3570-01	.2960-01	.3570-01	.1390-02	.1152-02	.1390-02	.8760	6.121	537.2
76	180.00	.16000	66.000	.9820-01	.7310-01	.9820-01	.3434-02	.2430-02	.3434-02	2.144	11.95	543.3
76	180.00	.17000	67.000	.1022	.8350-01	.1082	.4209-02	.3484-02	.4209-02	2.624	14.62	544.2
76	180.00	.20000	69.000	.1560-01	.1330-01	.1680-01	.6529-03	.5421-03	.6529-03	.4140	2.578	533.1
76	180.00	.40100	72.000	.1900-02	.1600-02	.1900-02	.7404-04	.6151-04	.7404-04	.4700-01	.4040	530.6
76	180.00	.50000	73.000	.1900-02	.1600-02	.1900-02	.7318-04	.6081-04	.7318-04	.4700-01	.3990	530.0
76	180.00	.60100	74.000	.3200-02	.2700-02	.3200-02	.1263-03	.1049-03	.1263-03	.8100-01	.6670	530.1
76	180.00	.70100	75.000	.3100-02	.2600-02	.3100-02	.1198-03	.9958-04	.1198-03	.7600-01	.6140	529.5

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1805)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 35.00 BETA = .0000 ELEVIR = .0000 SPDBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

PUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
55	7.990	2.964	35.09	.0000	180.0	674.0	.7000-01	1338.	97.20	3.110	3859.	.6009-04
56	7.990	2.989	35.10	.0000	180.0	678.5	.7000-01	1339.	97.10	3.131	3857.	.6056-04
57	7.990	2.910	35.10	.0000	180.0	677.5	.7000-01	1359.	98.70	3.126	3890.	.5946-04

PUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FP R =
55	.7824-07			0.0175
56	.7815-07			.2359-01
57	.7947-07			.2375-01

## \*\*\*TEST DATA\*\*\*

PUN NUMBER	THETA	%L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
55	.0000	.0000	1.0000	.6926	.5600	.5982	.2971-01	.2438-01	.2604-01	18.17	98.75	592.7
55	.0000	.5000-02	2.0000	.7246	.5899	.5907	.3154-01	.2568-01	.2571-01	18.48	124.0	618.3
55	.0000	.1000-01	3.0000	.6246	.5107	.5217	.2719-01	.2223-01	.2271-01	16.31	106.8	604.3
55	.0000	.2000-01	4.0000	.4195	.3462	.3552	.1825-01	.1507-01	.1500-01	11.53	63.30	572.7
55	.0000	.3000-01	5.0000	.3115	.2576	.2765	.1355-01	.1121-01	.1204-01	8.670	47.79	564.6
55	.0000	.4000-01	6.0000	.2558	.2125	.2307	.1117-01	.9248-02	.1004-01	7.205	39.83	558.9
55	.0000	.5000-01	7.0000	.2508	.2070	.2272	.1092-01	.9028-02	.9639-02	6.898	45.91	572.2
55	.0000	.6000-01	8.0000	.2546	.2104	.2324	.1108-01	.9158-02	.1011-01	7.055	44.37	567.6
55	.0000	.7000-01	9.0000	.2220	.1833	.2079	.9655-02	.7977-02	.8877-02	6.112	41.95	571.8
55	.0000	.8000-01	10.000	.1769	.1453	.1635	.7189-02	.6552-02	.7118-02	4.919	33.88	565.4
55	.0000	.9000-01	11.000	.1652	.1357	.1533	.6530-02	.5352-02	.6573-02	4.629	29.22	560.3
55	.0000	.10000+00	12.000	.1535	.1271	.1430	.6224-02	.5331-02	.6224-02	4.301	25.68	560.3
55	.0000	.12000	14.000	.1547	.1283	.1449	.6125-02	.5354-02	.6359-02	4.371	24.21	555.1
55	.0000	.13000	15.000	.1556	.1131	.1281	.5346-02	.4324-02	.5577-02	3.835	22.31	559.3
55	.0000	.14000	16.000	.1250	.1035	.1174	.5439-02	.4506-02	.5109-02	3.512	22.20	558.4
55	.0000	.15000	18.000	.1280	.1059	.1204	.5571-02	.4611-02	.5243-02	3.581	21.96	561.5
55	.0000	.17000	19.000	.1284	.1062	.1210	.5589-02	.4624-02	.5265-02	3.582	22.58	563.2

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AEDC VXF V41B-57A (C4-499) COLLATION CHECK

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CH-49B (AEDC V41B-57A) CRBITR FUSELAGE

SN NUMBER	W-REF P=0.5	T/C NO	X/L	W-REF R=1.0	H/REF (TAW)	H1STO) BTU/ R F12SEC	H1TO) BTU/ R F12SEC	H1TAW) BTU/ R F12SEC	QDOT BTU/ R F12SEC	DTWDT DEC. R /SEC	TH DEC. R
55	1366	20.000	19000	1047	1194	5512-02	4559-02	5155-02	3.527	22.23	564.2
56	1239	21.000	13000	1026	1170	5333-02	4484-02	5322-02	3.409	21.90	550.8
57	1231	22.000	13000	1019	1164	5360-02	4433-02	5067-02	3.431	21.62	564.1
58	1127	23.000	22500	1023	1169	4906-02	4059-02	4950-02	3.143	19.81	563.6
59	1113	24.000	18000	1031	1153	4872-02	4029-02	4823-02	3.116	19.63	564.7
60	1115	25.000	18000	1030	1154	4374-02	3816-02	4413-02	2.759	17.56	566.5
61	1133	26.000	18000	1030	1114	4652-02	3840-02	4413-02	2.941	18.46	571.9
62	1133	27.000	18000	1030	1114	4497-02	3710-02	4426-02	2.955	18.33	572.9
63	1133	28.000	18000	1030	1114	4254-02	3505-02	4029-02	2.638	17.77	575.4
64	1133	29.000	18000	1030	1114	3758-02	3355-02	3753-02	2.351	16.09	572.5
65	1133	30.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
66	1133	31.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
67	1133	32.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
68	1133	33.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
69	1133	34.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
70	1133	35.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
71	1133	36.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
72	1133	37.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
73	1133	38.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
74	1133	39.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
75	1133	40.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
76	1133	41.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
77	1133	42.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
78	1133	43.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
79	1133	44.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
80	1133	45.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
81	1133	46.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
82	1133	47.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
83	1133	48.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
84	1133	49.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
85	1133	50.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
86	1133	51.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
87	1133	52.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
88	1133	53.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
89	1133	54.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
90	1133	55.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
91	1133	56.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
92	1133	57.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
93	1133	58.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
94	1133	59.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
95	1133	60.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
96	1133	61.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
97	1133	62.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
98	1133	63.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
99	1133	64.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0
100	1133	65.000	18000	1030	1114	3679-02	3228-02	3679-02	2.323	16.17	581.0

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(IGTO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	OTWDT DEG. R /SEC	TW DEG. R
55	30.000	.92500	970.00	.1239	.1022	.1239	.5393-02	.5393-02	3.395	24.83	574.6
55	30.000	.95000	974.00	.1502	.1317	.1502	.6975-02	.6975-02	4.315	31.39	585.4
55	30.000	.97500	979.00	.9570-01	.7990-01	.9570-01	.4199-02	.4199-02	2.704	19.91	560.2
55	31.500	.20000	108.00	.1100	.9100-01	.1100	.4804-02	.4804-02	3.066	30.73	564.5
55	32.000	.40000	631.00	.1172	.9560-01	.1111	.5101-02	.4205-02	3.202	21.93	576.5
55	32.000	.50000	832.00	.1025	.8430-01	.9720-01	.4463-02	.3571-02	2.766	19.48	584.4
55	32.000	.60000	833.00	.9530-01	.7830-01	.9030-01	.3408-02	.3329-02	2.559	16.91	587.0
55	32.000	.70000	834.00	.1002	.8240-01	.9510-01	.4368-02	.4138-02	2.692	20.14	590.1
55	32.000	.80000	835.00	.1427	.1172	.1252	.6212-02	.5102-02	3.819	25.83	589.4
55	32.000	.90000	836.00	.1127	.1419	.1659	.7518-02	.6178-02	4.636	33.68	587.6
55	32.000	.95000	837.00	.1813	.1495	.1757	.7919-02	.6508-02	4.887	36.74	567.1
55	32.000	.97500	838.00	.1912	.1569	.1851	.6323-02	.6830-02	5.095	39.58	592.0
55	32.000	1.0150	839.00	.1448	.1192	.1332	.6304-02	.5169-02	3.722	31.17	582.1
55	32.000	1.0300	840.00	.1373	.1135	.1287	.5939-02	.5603-02	3.768	28.99	576.1
55	32.000	1.0450	841.00	.1477	.1155	.1342	.6257-02	.5157-02	3.924	29.55	577.0
55	32.000	1.0600	842.00	.1154	.9630-01	.1087	.5055-02	.4733-02	3.199	26.02	572.5
55	32.000	1.0750	843.00	.1310	.1317	.1310	.5721-02	.4745-02	3.719	23.57	552.7
55	32.000	1.0900	844.00	.1202	.9930-01	.1202	.5249-02	.4334-02	3.323	33.23	568.6
55	32.000	1.1050	845.00	.1236	.8630-01	.1036	.4525-02	.3757-02	2.957	18.77	549.2
55	32.000	1.1200	846.00	.7410-01	.6160-01	.7410-01	.3235-02	.4325-02	2.120	13.47	547.7
55	32.000	1.1350	847.00	.1931	.1594	.1931	.8430-02	.8430-02	5.330	39.06	570.5
55	32.000	1.1500	848.00	.1136	.9330-01	.1136	.4960-02	.4095-02	3.137	34.48	570.4
55	32.000	1.1650	849.00	.9350-01	.7760-01	.9350-01	.4082-02	.4082-02	2.667	17.96	549.4
55	32.000	1.1800	850.00	.9350-01	.7680-01	.9250-01	.4037-02	.4037-02	2.642	15.46	548.2
55	32.000	1.1950	851.00	.3170-01	.2630-01	.3170-01	.1380-02	.1147-02	.980	6.740	545.9
55	32.000	1.2100	852.00	.2400-02	.2000-02	.2400-02	.1053-03	.1053-03	.7000-01	.5210	539.3
55	32.000	1.2250	853.00	.2100-02	.1700-02	.2100-02	.9144-04	.9144-04	.6100-01	.4530	538.9
55	32.000	1.2400	854.00	.4590-01	.3930-01	.4590-01	.7612-04	.7612-04	1.349	8.589	543.1
55	32.000	1.2550	855.00	.2730-01	.2300-01	.2730-01	.9901-03	.1190-02	.7880	5.327	540.8
55	32.000	1.2700	856.00	.2620-01	.2300-01	.2620-01	.1025-02	.1233-02	.8140	6.049	542.5
55	32.000	1.2850	857.00	.1100-02	.9100-03	.1100-02	.3932-04	.4723-04	.2400-01	.2340	539.0
55	32.000	1.3000	858.00	.8000-03	.7000-03	.8000-03	.3585-04	.3585-04	.2400-01	.1780	538.4
55	32.000	1.3150	859.00	.1920-01	.1600-01	.1920-01	.6567-03	.6374-03	.540	4.282	541.1
55	32.000	1.3300	860.00	.2300-01	.1900-01	.2300-01	.8515-03	.1024-02	.6760	5.393	542.5
55	32.000	1.3450	861.00	.1900-01	.1600-01	.1900-01	.7236-03	.6598-03	.5750	4.592	541.6
55	32.000	1.3600	862.00	.5500-02	.4000-02	.5500-02	.2579-03	.2579-03	.1710	1.367	538.6
55	32.000	1.3750	863.00	.1600-02	.1400-02	.1600-02	.5997-04	.7201-04	.4800-01	.3830	537.2
55	32.000	1.3900	864.00	.4200-01	.3500-01	.4200-01	.1871-02	.1871-02	1.231	9.792	544.6
55	32.000	1.4050	865.00	.3700-01	.3100-01	.3700-01	.1656-02	.1656-02	1.091	8.675	544.2
55	32.000	1.4200	866.00	.2300-02	.2400-02	.2300-02	.1259-03	.1259-03	.8400-01	.6880	538.0
55	32.000	1.4350	867.00	.5000-02	.4000-02	.5000-02	.2603-03	.2603-03	.1740	1.049	537.4
55	32.000	1.4500	868.00	.5000-02	.4000-02	.5000-02	.2266-03	.2266-03	.1500	1.236	540.1
55	32.000	1.4650	869.00	.2240-01	.1870-01	.2240-01	.9798-03	.9798-03	.6470	5.313	542.9



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C4-49B (AEDC V41B-57A) ORBITER FUSELAGE

FUSELAGE

PARAMETRIC DATA

ALPHA = 35.30 BETA = .0000 ELEVTR = .0000 SPDRK = .0000  
 BDFLAP = .0030 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
37	8.000	3.351	35.13	.0000	180.0	760.0	.7800-01	1333.	96.60	3.487	3852.	5763-04
38	8.000	3.335	35.08	.0000	180.0	759.7	.7800-01	1339.	97.00	3.486	3852.	5728-04
39	8.000	3.320	35.08	.0000	180.0	759.7	.7800-01	1341.	97.10	3.486	3854.	5721-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FP R =
37	.7775-07	4506-01	4506-01	0.0175
38	.7813-07	4539-01	4539-01	.2229-01
39	.7821-07	4610-01	4610-01	.2231-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
37	.00000	.50000-02	2.0000	.7237	.5807	.5875	.3333-01	.2702-01	.2706-01	19.02	127.0	628.7
37	.00000	.10000-01	3.0000	.6189	.5041	.5151	.2951-01	.2322-01	.2372-01	16.69	108.8	614.1
37	.00000	.20000-01	4.0000	.4237	.3486	.3680	.1952-01	.1606-01	.1695-01	12.07	65.99	581.0
37	.00000	.30000-01	5.0000	.3184	.2625	.2821	.1466-01	.1209-01	.1299-01	9.194	50.48	572.4
37	.00000	.40000-01	6.0000	.2528	.2089	.2270	.1165-01	.9522-02	.1046-01	7.379	40.65	565.8
37	.00000	.50000-01	7.0000	.2520	.2074	.2279	.1161-01	.9552-02	.1050-01	7.189	47.66	580.2
37	.00000	.60000-01	8.0000	.2554	.2113	.2336	.1181-01	.9732-02	.1076-01	7.372	46.19	575.2
37	.00000	.70000-01	9.0000	.2213	.1821	.2030	.1019-01	.8332-02	.9350-02	6.323	43.26	579.1
37	.00000	.80000-01	10.000	.1777	.1465	.1640	.8185-02	.6750-02	.7554-02	5.129	35.20	572.8
37	.00000	.90000-01	11.000	.1695	.1391	.1562	.7761-02	.6409-02	.7194-02	4.906	30.85	557.3
37	.00000	1.0000+00	12.000	.1548	.1279	.1441	.7131-02	.5889-02	.6636-02	4.507	26.82	557.4
37	.00000	.12000	14.000	.1323	.1094	.1238	.6094-02	.5037-02	.5701-02	3.870	21.33	554.4
37	.00000	.13000	15.000	.1353	.1118	.1268	.6231-02	.5148-02	.5839-02	3.513	22.90	555.7
37	.00000	.14000	16.000	.1250	.1033	.1173	.5756-02	.4757-02	.5411-02	3.652	23.01	554.9
37	.00000	.16000	19.000	.1313	.1094	.1235	.6049-02	.4995-02	.5687-02	3.831	23.37	567.8
37	.00000	.17000	13.000	.1315	.1087	.1239	.6064-02	.5005-02	.5707-02	3.820	24.01	569.4
37	.00000	.18000	20.000	.1327	.1095	.1250	.6114-02	.5046-02	.5759-02	3.848	24.18	570.0





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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(910) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DOT DEG. R /SEC	TW DEG. R
38	120.00	.86200	249.00	.1550-01	.1290-01	.1550-01	.7157-03	.5951-03	.7157-03	.4730	3.438	544.5
38	130.00	.80500	253.00	.6800-02	.5700-02	.6800-02	.3155-03	.2623-03	.3155-03	.2090	1.659	544.3
38	130.00	.82900	254.00	.3050-01	.2330-01	.3050-01	.1405-02	.1168-02	.1405-02	.8250	6.760	547.7
38	130.00	.86200	255.00	.2720-01	.2660-01	.2720-01	.1252-02	.1041-02	.1252-02	.1330	1.214	546.7
38	130.00	.96300	256.00	.4300-02	.3500-02	.4300-02	.2005-03	.1668-03	.2005-03	.4100-01	3.170	540.4
38	135.00	.40100	142.00	.1300-02	.1100-02	.1300-02	.6176-04	.5140-04	.6176-04	.4300-01	3.500	541.1
38	135.00	.50100	143.00	.1400-02	.1200-02	.1400-02	.6412-04	.5335-04	.6412-04	.9100-01	7.060	541.9
38	135.00	.60100	144.00	.3000-02	.2500-02	.3000-02	.1381-03	.1149-03	.1381-03	.2440	1.944	542.8
38	135.00	.70100	145.00	.8300-02	.6700-02	.8300-02	.3694-03	.3072-03	.3694-03	.2420	1.860	543.7
38	140.00	.18900	85.000	.7500-02	.6600-02	.7500-02	.3643-03	.3031-03	.3643-03	.2340	1.797	541.1
38	140.00	.19300	87.000	.7700-02	.6400-02	.7700-02	.3532-03	.2938-03	.3532-03	.2640	2.039	543.2
38	145.00	.80500	259.00	.8700-02	.7200-02	.8700-02	.3988-03	.3317-03	.3988-03	.2690	2.018	539.3
39	145.00	.82900	260.00	.6700-02	.7300-02	.6700-02	.4029-03	.3355-03	.4029-03	.1730	1.423	540.2
39	145.00	.86200	261.00	.5500-02	.4700-02	.5500-02	.2534-03	.2160-03	.2534-03	.4480	3.325	544.4
38	150.00	.16000	86.000	.1470-01	.1220-01	.1470-01	.6776-03	.5634-03	.6776-03	.4020	2.917	544.2
38	150.00	.18000	84.000	.1320-01	.1100-01	.1320-01	.6097-03	.5061-03	.6097-03	.9000-02	.6720-01	539.0
38	150.00	.19300	82.000	.3000-03	.2000-03	.3000-03	.1351-04	.1125-04	.1351-04	.5930	4.398	545.2
38	155.00	.16000	80.000	.1950-01	.1620-01	.1950-01	.1978-03	.7464-03	.1978-03	.7590	6.035	546.8
38	160.00	.18000	77.000	.2500-01	.2080-01	.2500-01	.1153-02	.9585-03	.1153-02	.1679	12.02	550.6
38	175.00	.15000	81.000	.5560-01	.4620-01	.5560-01	.2564-02	.2129-02	.2564-02	.5630	4.177	545.4
39	175.00	.16500	79.000	.1850-01	.1540-01	.1850-01	.8531-03	.7091-03	.8531-03	.1810	12.96	551.3
38	175.00	.17500	78.000	.6010-01	.4990-01	.6010-01	.2768-02	.2298-02	.2768-02	.2896	28.96	558.0
37	180.00	.10000-01	59.000	.1329	.1101	.1329	.6123-02	.5070-02	.6123-02	.3927	7.322	546.7
37	180.00	.25000-01	60.000	.790-01	.2820-01	.3390-01	.1563-02	.1298-02	.1563-02	.4760	3.030	543.9
37	180.00	.50000-01	61.000	.1520-01	.1310-01	.1520-01	.7262-03	.6035-03	.7262-03	.3390	2.161	543.0
37	180.00	.75000-01	62.000	.1120-01	.9300-02	.1120-01	.5169-03	.4297-03	.5169-03	.4640	3.042	543.9
37	180.00	.10000+00	63.000	.1540-01	.1280-01	.1540-01	.7082-03	.5885-03	.7082-03	.7220	5.026	544.9
37	180.00	.12500	64.000	.2400-01	.1990-01	.2400-01	.1103-02	.9167-03	.1103-02	.1148	7.985	546.4
37	180.00	.15000	65.000	.3820-01	.3170-01	.3820-01	.1758-02	.1460-02	.1758-02	.2770	15.35	554.8
37	180.00	.16000	62.000	.9330-01	.7730-01	.9330-01	.4298-02	.3561-02	.4298-02	.1737	17.37	550.8
37	180.00	.17000	67.000	.1048	.8690-01	.1048	.4826-02	.4004-02	.4826-02	.2819	2.819	540.5
37	180.00	.20000	69.000	.1500-01	.1250-01	.1500-01	.6900-03	.5739-03	.6900-03	.8710	.8710	538.4
37	180.00	.40100	72.000	.3000-02	.2300-02	.3000-02	.1548-03	.1289-03	.1548-03	.1020	.9120	539.6
37	180.00	.50000	73.000	.3500-02	.2500-02	.3500-02	.1625-03	.1352-03	.1625-03	.1430	1.174	540.6
37	180.00	.60100	74.000	.4700-02	.3900-02	.4700-02	.2165-03	.1801-03	.2165-03	.1930	1.540	540.7
37	180.00	.70100	75.000	.6400-02	.5300-02	.6400-02	.2932-03	.2439-03	.2932-03			

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1905)

## PARAMETRIC DATA

ALPHA = 35.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
 BOFLAP = .0000 MACH = 6.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	ALPHA DEG.	BETA DEG.	MODEL DEG.	FO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
13	8.000	35.12	0.000	180.0	881.2	.8300-01	1355.	99.20	3.952	3884.	.7539-04
14	8.000	35.12	0.000	180.0	881.7	.8300-01	1353.	98.40	3.954	3889.	.7527-04
15	8.000	35.12	0.000	180.0	881.4	.8300-01	1351.	98.60	3.953	3893.	.7507-04

RUN NUMBER	MU	BTU/R /FT <sup>2</sup>	ST PR R =
13	LB-SEC /FT <sup>2</sup>	1.918-01	0.0175
14	1.921-07	2.110-01	
15	1.794-07	2.114-01	

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	Y/C ND	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/R /FT <sup>2</sup> SEC	H(10) BTU/R /FT <sup>2</sup> SEC	H(1AW) BTU/R /FT <sup>2</sup> SEC	QDOT BTU/R /FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TW DEG. R
13	.00000	.0000	1.000	.676	.5533	.5316	.3327-01	.2121-01	.2939-01	20.23	108.9	611.4
13	.00000	.0000	2.000	.7243	.5887	.5325	.3552-01	.2235-01	.2899-01	20.94	139.6	631.4
13	.00000	.0000	3.000	.6141	.5015	.5123	.3020-01	.2055-01	.2519-01	18.23	118.8	615.7
13	.00000	.0000	4.000	.4185	.3455	.3544	.2058-01	.1693-01	.1792-01	13.20	72.26	578.1
13	.00000	.0000	5.000	.3148	.2605	.2755	.1548-01	.1281-01	.1375-01	10.06	55.34	569.3
13	.0000	.0000	6.000	.2550	.2115	.2355	.1254-01	.1040-01	.1125-01	8.248	45.53	551.7
13	.0000	.0000	7.000	.2473	.2042	.2340	.1216-01	.1004-01	.1122-01	7.802	51.79	577.8
13	.0000	.0000	8.000	.2515	.2105	.2324	.1252-01	.1035-01	.1143-01	8.099	50.82	572.4
13	.0000	.0000	9.000	.2515	.2105	.2324	.1252-01	.1035-01	.1143-01	8.099	50.82	572.4
13	.0000	.0000	10.000	.2515	.2105	.2324	.1252-01	.1035-01	.1143-01	8.099	50.82	572.4
13	.0000	.0000	11.000	.2515	.2105	.2324	.1252-01	.1035-01	.1143-01	8.099	50.82	572.4
13	.0000	.0000	12.000	.2515	.2105	.2324	.1252-01	.1035-01	.1143-01	8.099	50.82	572.4
13	.0000	.0000	13.000	.2515	.2105	.2324	.1252-01	.1035-01	.1143-01	8.099	50.82	572.4
13	.0000	.0000	14.000	.2515	.2105	.2324	.1252-01	.1035-01	.1143-01	8.099	50.82	572.4
13	.0000	.0000	15.000	.2515	.2105	.2324	.1252-01	.1035-01	.1143-01	8.099	50.82	572.4







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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1805)

ROW NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(19TO) BTU/ R F12SEC	H(1TO) BTU/ R F12SEC	H(1AW) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTMDT DEG. R /SEC	TM DEG. R
14	120.00	.62300	248.00	.1470-01	.1220-01	.1470-01	.7227-03	.6023-03	.7227-03	.4910	4.035	542.6
14	120.00	.85500	249.00	.1540-01	.1250-01	.1540-01	.7558-03	.6302-03	.7558-03	.5150	3.754	540.5
14	130.00	.80500	253.00	.7600-02	.6300-02	.7600-02	.3730-03	.3109-03	.3730-03	.2540	2.032	541.6
14	120.00	.82300	254.00	.2990-01	.2450-01	.2990-01	.1465-02	.1221-02	.1465-02	.9320	7.648	545.1
14	130.00	.86200	255.00	.2610-01	.2170-01	.2610-01	.1283-02	.1069-02	.1283-02	.8720	7.165	542.4
14	130.00	.95300	256.00	.7400-02	.6100-02	.7400-02	.3622-03	.3025-03	.3622-03	.2480	2.280	533.9
14	130.00	.40100	142.00	.1300-02	.1100-02	.1300-02	.6530-04	.5480-04	.6530-04	.4000-01	.3460	538.1
14	130.00	.50100	143.00	.1600-02	.1400-02	.1600-02	.6530-04	.5480-04	.6530-04	.5500-01	.4530	539.4
14	130.00	.61000	144.00	.1900-02	.1700-02	.1900-02	.6530-04	.5480-04	.6530-04	.5500-01	.4530	539.4
14	130.00	.72000	145.00	.2200-02	.2000-02	.2200-02	.6530-04	.5480-04	.6530-04	.5500-01	.4530	539.4
14	130.00	.83000	146.00	.2500-02	.2300-02	.2500-02	.6530-04	.5480-04	.6530-04	.5500-01	.4530	539.4
14	140.00	.19000	85.000	.1340-01	.1100-01	.1340-01	.4573-03	.3573-03	.4573-03	.2520	2.330	540.8
14	140.00	.29000	85.000	.1600-02	.1400-02	.1600-02	.4573-03	.3573-03	.4573-03	.2520	2.330	540.8
14	145.00	.80500	250.00	.6000-02	.5000-02	.6000-02	.3953-03	.3301-03	.3953-03	.2091	2.091	539.2
14	145.00	.86200	260.00	.5400-02	.4500-02	.5400-02	.4474-03	.3731-03	.4474-03	.3550	2.358	540.2
15	145.00	.82300	261.00	.5600-02	.4700-02	.5600-02	.4474-03	.3731-03	.4474-03	.3550	2.358	539.8
14	150.00	.16000	86.000	.1490-01	.1250-01	.1490-01	.7350-03	.6127-03	.7350-03	.5000	3.717	541.8
14	150.00	.84.000	84.000	.1440-01	.1200-01	.1440-01	.7350-03	.6127-03	.7350-03	.5000	3.717	541.8
14	150.00	.82.000	82.000	.1600-02	.1400-02	.1600-02	.6878-05	.5737-05	.6878-05	.4810	3.577	541.4
14	150.00	.80.000	80.000	.2040-01	.1700-01	.2040-01	.1003-02	.8350-03	.1003-02	.5000-02	.3500-01	539.4
14	150.00	.18000	83.000	.2000-03	.1700-03	.2000-03	.9424-05	.7851-05	.9424-05	.6820	5.068	542.1
14	160.00	.18000	77.000	.2490-01	.2070-01	.2490-01	.1225-02	.1020-02	.1225-02	.8300	6.607	544.0
14	175.00	.12000	81.000	.5790-01	.4600-01	.5790-01	.2619-02	.2371-02	.2619-02	1.920	13.77	548.1
14	175.00	.16500	73.000	.2150-01	.1730-01	.2150-01	.1055-02	.8830-03	.1055-02	.7170	5.329	542.8
14	175.00	.78.000	78.000	.6070-01	.5050-01	.6070-01	.2494-02	.2494-02	.2494-02	2.011	14.42	548.2
13	180.00	.10000-01	59.000	.1327	.1103	.1327	.6528-02	.5423-02	.6528-02	.4.342	32.08	554.2
13	180.00	.60.000	60.000	.3320-01	.2760-01	.3320-01	.1631-02	.1359-02	.1631-02	1.106	7.963	540.9
13	180.00	.61.000	61.000	.1530-01	.1280-01	.1530-01	.7542-03	.6321-03	.7542-03	.5140	3.278	539.4
13	180.00	.62.000	62.000	.1070-01	.8300-02	.1070-01	.5348-03	.4377-03	.5348-03	.3550	2.233	537.9
13	180.00	.63.000	63.000	.12.00-01	.1340-01	.12.00-01	.7330-03	.6613-03	.7330-03	.5550	3.542	539.4
13	180.00	.64.000	64.000	.2460-01	.2050-01	.2460-01	.1208-02	.1037-02	.1208-02	.8200	5.715	541.0
13	180.00	.65.000	65.000	.3750-01	.3130-01	.3750-01	.1844-02	.1537-02	.1844-02	1.248	8.694	542.8
13	180.00	.66.000	66.000	.9330-01	.7530-01	.9330-01	.4440-02	.3690-02	.4440-02	2.559	16.41	552.9
13	180.00	.67.000	67.000	.9220-01	.8170-01	.9220-01	.4830-02	.4017-02	.4830-02	3.233	17.95	550.1
13	180.00	.68.000	68.000	.1470-01	.1220-01	.1470-01	.7220-03	.6020-03	.7220-03	.4910	3.045	539.4
13	180.00	.69.000	69.000	.4300-02	.3630-02	.4300-02	.2122-03	.1770-03	.2122-03	.1440	1.229	539.1
13	180.00	.70.000	70.000	.5900-02	.5000-02	.5900-02	.1904-03	.1589-03	.1904-03	.1290	1.101	539.6
13	180.00	.71.000	71.000	.6000-02	.5000-02	.6000-02	.2930-03	.2442-03	.2930-03	.1.637	1.637	540.4
13	180.00	.70100	75.000	.8200-02	.6800-02	.8200-02	.4009-03	.3342-03	.4009-03	.2720	2.171	540.1

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AEDC VKC V41B-57A (OH-49B) COLLATION CHECK

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## FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1806)

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	PN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
181	7.900	.5309	40.08	.0000	180.0	108.2	.1200-01	1269.	94.20	.5250	3755.	.1071-04
182	7.900	.5453	40.08	.0000	180.0	111.1	.1200-01	1269.	94.10	.5300	3756.	.1100-04
183	7.900	.5435	40.08	.0000	180.0	110.7	.1200-01	1269.	94.10	.5370	3755.	.1097-04

RUN NUMBER	LB-SEC /FT <sup>2</sup>	REF BTU/ R	ST FR R =
181	.7590-07	.1773-01	.50175
182	.7578-07	.1758-01	.5482-01
183	.7576-07	.1793-01	.5491-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
181	.0000	.0000	1.0000	.6104	.5031	.5464	.1082-01	.8917-02	.9686-02	6.438	35.79	547.4
181	.0000	.5000-02	2.0000	.7212	.5926	.5926	.1278-01	.1050-01	.1050-01	7.483	51.76	557.0
181	.0000	.1000-01	3.0000	.6222	.5120	.5179	.1133-01	.9075-02	.9179-02	6.499	43.68	553.1
181	.0000	.2000-01	4.0000	.4737	.3951	.3905	.788-02	.6489-02	.5745-02	4.710	26.24	543.5
181	.0000	.3000-01	5.0000	.3397	.2805	.2952	.6021-02	.4972-02	.5250-02	3.621	20.20	541.0
181	.0000	.4000-01	6.0000	.2780	.2297	.2452	.4938-02	.4071-02	.4346-02	2.973	16.60	539.1
181	.0000	.5000-01	7.0000	.2234	.2321	.2500	.4938-02	.4115-02	.4432-02	2.984	20.14	544.2
181	.0000	.6000-01	8.0000	.2660	.2381	.2559	.5070-02	.4195-02	.4535-02	3.044	19.40	541.9
181	.0000	.7000-01	9.0000	.2491	.2056	.2243	.4415-02	.3643-02	.3975-02	2.044	18.41	543.6
181	.0000	.8000-01	10.000	.2011	.1660	.1820	.3560-02	.2942-02	.3226-02	2.138	14.89	542.8
181	.0000	.9000-01	11.000	.1324	.1389	.1747	.3403-02	.2816-02	.3087-02	2.052	13.09	540.5
181	.0000	.1000-03	12.000	.1153	.1425	.1639	.3186-02	.2632-02	.2905-02	1.919	11.57	540.3
181	.0000	.2000-03	14.000	.1714	.1417	.1571	.3035-02	.2511-02	.2783-02	1.839	10.28	537.1
181	.0000	.3000-03	15.000	.1504	.1355	.1472	.2843-02	.2349-02	.2609-02	1.715	10.08	533.3
181	.0000	.4000-03	16.000	.1504	.1229	.1367	.2637-02	.2173-02	.2424-02	1.592	10.16	538.8
181	.0000	.5000-03	18.000	.1342	.1204	.1204	.2734-02	.2253-02	.2518-02	1.649	10.23	539.4
181	.0000	.6000-03	19.000	.1323	.1258	.1404	.2700-02	.2230-02	.2489-02	1.626	10.37	540.0

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1806)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(GTO) BTU/ R FT2SEC	H(UTO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
181	00000	18000	20.000	.1559	.1287	.1438	.2763-02	.2282-02	.2549-02	1.664	10.62	540.0
181	00000	19000	21.000	.1414	.1169	.1307	.2507-02	.2072-02	.2317-02	1.516	9.683	537.6
181	00000	20000	22.000	.1239	.1189	.1331	.2552-02	.2108-02	.2360-02	1.537	9.807	539.8
181	00000	22500	23.000	.1366	.1129	.1267	.2422-02	.2001-02	.2246-02	1.461	9.048	539.0
181	00000	25000	801.00	.1325	.1095	.1231	.2350-02	.1941-02	.2183-02	1.418	8.225	539.5
181	00000	30000	802.00	.1263	.9960-01	.1120	.2138-02	.1768-02	.2073-02	1.345	8.572	541.5
181	00000	35000	803.00	.1263	.1043	.1173	.2233-02	.1753-02	.2072-02	1.275	8.363	541.9
181	00000	40000	804.00	.1199	.9890-01	.1112	.2123-02	.1753-02	.2072-02	1.150	7.757	544.0
181	00000	45000	805.00	.1125	.9350-01	.1007	.1794-02	.1566-02	.1763-02	1.072	7.464	544.5
181	00000	50000	806.00	.1112	.9350-01	.9390-01	.1794-02	.1566-02	.1763-02	1.072	7.464	545.7
181	00000	55000	807.00	.9310-01	.7340-01	.8830-01	.1686-02	.1390-02	.1565-02	1.006	6.821	545.7
181	00000	60000	808.00	.6930-01	.7170-01	.8070-01	.1541-02	.1270-02	.1430-02	.9190	6.592	546.7
181	00000	65000	809.00	.6930-01	.7040-01	.7930-01	.1515-02	.1249-02	.1406-02	.9020	6.518	546.7
181	00000	70000	810.00	.6930-01	.6830-01	.7470-01	.1426-02	.1176-02	.1344-02	.8500	6.402	546.0
181	00000	75000	811.00	.6930-01	.6730-01	.7360-01	.1472-02	.1193-02	.1376-02	.8630	6.568	545.3
181	00000	80000	812.00	.6930-01	.6510-01	.7400-01	.1399-02	.1154-02	.1312-02	.8360	6.422	544.6
181	00000	85000	813.00	.7830-01	.6510-01	.7400-01	.1399-02	.1154-02	.1312-02	.8360	6.422	544.6
181	00000	90000	814.00	.7410-01	.6120-01	.6970-01	.1076-02	.8935-03	.1015-02	.6470	5.344	541.4
181	00000	92500	815.00	.6070-01	.5310-01	.5730-01	.1016-02	.8322-03	.9511-03	.6110	5.047	541.4
181	00000	95000	816.00	.5730-01	.4730-01	.5420-01	.1016-02	.8322-03	.9511-03	.6110	5.047	541.4
181	00000	97500	817.00	.5630-01	.4860-01	.5590-01	.1045-02	.8621-03	.9931-03	.6260	5.173	542.6
181	00000	1.0150	818.00	.3730-01	.3140-01	.3610-01	.6724-03	.5359-03	.6395-03	.4070	3.029	537.8
181	00000	1.0350	819.00	.3570-01	.3280-01	.3780-01	.7040-03	.5920-03	.6397-03	.4260	3.177	537.0
181	00000	1.0450	820.00	.3570-01	.3030-01	.3490-01	.6506-03	.5378-03	.6189-03	.3940	3.142	537.4
181	00000	1.0600	821.00	.3330-01	.2810-01	.3230-01	.6016-03	.4972-03	.5722-03	.3640	3.068	537.6
181	00000	15000	822.00	.5430-02	.4500-02	.5400-02	.9595-04	.7949-04	.9335-04	.5900-01	.3570	529.7
181	00000	20000	823.00	.8100-02	.6700-02	.8100-02	.1436-03	.1190-03	.1366-03	.8800-01	.5510	527.9
181	00000	25000	824.00	.1157	.9540-01	.1074	.2050-02	.1691-02	.1931-02	1.224	9.730	545.5
181	00000	30000	825.00	.1059	.8970-01	.1010	.1930-02	.1531-02	.1731-02	1.149	9.119	547.5
181	00000	35000	826.00	.7440-01	.6130-01	.6930-01	.1316-02	.1036-02	.1233-02	.7830	6.968	548.0
181	00000	40000	827.00	.7320-01	.6440-01	.7250-01	.1356-02	.1142-02	.1266-02	.8240	6.107	547.8
181	00000	45000	828.00	.8230-01	.6760-01	.7640-01	.1458-02	.1203-02	.1353-02	.8710	6.461	545.3
181	00000	50000	829.00	.8230-01	.6470-01	.7250-01	.1458-02	.1203-02	.1353-02	.8710	6.461	545.3
181	00000	55000	830.00	.8230-01	.5470-01	.6230-01	.1174-02	.9589-03	.1104-02	.7040	5.607	542.5
181	00000	60000	831.00	.2510	.2073	.2510	.4508-02	.3723-02	.4508-02	2.714	15.94	540.1
181	00000	65000	832.00	.1559	.1335	.1629	.3033-02	.2505-02	.3033-02	1.828	11.66	539.5
181	00000	70000	833.00	.9230-01	.7630-01	.9250-01	.1640-02	.1352-02	.1640-02	.9770	7.246	546.7
181	00000	75000	834.00	.1013	.8350-01	.1013	.1795-02	.1491-02	.1795-02	1.072	7.958	545.3
181	00000	80000	835.00	.1042	.8500-01	.1042	.1947-02	.1524-02	.1847-02	1.105	8.203	544.3
181	00000	85000	836.00	.2375	.1524	.2376	.4268-02	.3227-02	.4268-02	2.576	14.38	538.6
181	00000	90000	837.00	.8400-02	.7000-02	.8400-02	.1490-03	.1234-03	.1490-03	.9200-01	.5710	528.0
181	00000	95000	838.00	.2517	.2227	.2597	.4843-02	.3999-02	.4843-02	2.912	18.56	540.9
181	00000	100000	839.00	.1849	.1526	.1849	.3320-02	.2741-02	.3320-02	1.934	17.79	541.6
181	00000	105000	840.00	.7710-01	.6370-01	.7710-01	.1367-02	.1129-02	.1367-02	.8220	6.110	541.3

AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(ISTO) BTU/ R F12SEC	H(TO) BTU/ R F12SEC	H(TAN) BTU/ R F12SEC	QDOY BTU/ R F12SEC	DTWDT DEG. R /SEC	TW DEG. R
181	30.000	.95000	974.00	.8600-01	.7100-01	.8600-01	.1524-02	.1258-02	.1524-02	.9160	6.810	541.5
181	30.000	.97500	979.00	.5400-01	.4470-01	.5400-01	.9568-03	.7914-03	.9568-03	.5810	4.335	535.1
182	31.500	.20000	108.00	.1283	.1059	.1283	.2305-02	.1903-02	.2305-02	.1384	14.04	541.4
181	32.000	.40000	831.00	.1415	.1168	.1314	.2509-02	.2070-02	.2329-02	1.501	10.45	543.9
181	32.000	.50000	832.00	.1163	.9580-01	.1079	.2061-02	.1698-02	.1912-02	1.226	8.799	547.3
181	32.000	.60000	833.00	.1035	.8530-01	.9600-01	.1834-02	.1511-02	.1702-02	1.089	7.337	548.6
181	32.000	.70000	834.00	.8930-01	.7360-01	.8280-01	.1582-02	.1304-02	.1468-02	.9430	7.233	546.6
181	32.000	.80000	835.00	.7490-01	.6180-01	.6950-01	.1328-02	.1095-02	.1233-02	.7930	5.698	545.0
181	32.000	.90000	836.00	.6050-01	.5650-01	.6440-01	.1214-02	.1002-02	.1141-02	.7280	5.414	542.2
181	32.000	.95000	837.00	.7610-01	.6220-01	.7190-01	.1349-02	.1113-02	.1275-02	.8100	6.226	542.1
181	32.000	.97500	838.00	.7730-01	.6420-01	.7370-01	.1373-02	.1139-02	.1307-02	.8300	6.611	540.8
181	32.000	1.0150	839.00	.4510-01	.3730-01	.4130-01	.7999-03	.6611-03	.7325-03	.4840	3.929	537.9
181	32.000	1.0300	840.00	.4950-01	.4100-01	.4540-01	.8795-03	.7271-03	.8054-03	.5330	4.178	536.8
181	32.000	1.0450	841.00	.5430-01	.4490-01	.4970-01	.9617-03	.7951-03	.8808-03	.5830	4.492	536.6
181	32.000	1.0600	842.00	.4480-01	.3710-01	.4110-01	.7949-03	.6571-03	.7280-03	.4810	3.984	537.1
182	35.000	.50000-01	115.00	.1282	.1060	.1282	.2302-02	.1903-02	.2302-02	1.395	8.912	536.3
182	35.000	.20000	110.00	.1345	.1110	.1296	.2417-02	.1994-02	.2417-02	1.446	14.64	544.0
182	39.000	.10000-00	116.00	.1080	.8930-01	.1080	.1940-02	.1604-02	.1940-02	1.176	7.518	535.8
182	40.000	.78000-01	121.00	.7410-01	.6130-01	.7410-01	.1331-02	.1101-02	.1331-02	.8100	5.181	533.6
182	40.000	.15000	111.00	.2137	.1764	.2137	.3838-02	.3163-02	.3838-02	2.302	17.11	542.3
182	40.000	.20000	112.00	.1285	.1060	.1285	.2308-02	.1904-02	.2308-02	1.381	15.38	544.0
182	42.500	.50000-01	127.00	.9040-01	.7470-01	.9040-01	.1523-02	.1342-02	.1523-02	.9850	6.678	535.3
182	45.000	.15000	117.00	.9330-01	.7760-01	.9330-01	.1696-02	.1394-02	.1696-02	1.024	6.030	534.8
181	45.000	.92500	969.00	.1040-01	.8600-02	.1040-01	.1840-03	.1524-03	.1840-03	.1130	.8430	529.9
181	45.000	.95000	973.00	.3000-03	.2000-03	.3000-03	.4711-05	.3904-05	.4711-05	.3000-02	.2200-01	527.9
181	45.000	.97500	978.00	.8000-03	.7000-03	.8000-03	.1473-04	.1221-04	.1473-04	.9000-02	.6800-01	527.6
182	51.000	.20000	118.00	.4540-01	.4020-01	.4540-01	.8655-03	.7335-03	.8655-03	.5400	3.456	533.0
182	60.000	.50000-01	131.00	.2470-01	.2050-01	.2470-01	.4437-03	.3674-03	.4437-03	.2710	1.840	531.6
182	67.500	.20000	128.00	.2850-01	.2360-01	.2850-01	.5112-03	.4232-03	.5112-03	.3120	2.333	531.4
181	75.000	.97500	977.00	.3000-03	.2000-03	.3000-03	.4470-05	.3705-05	.4470-05	.3000-02	.2100-01	527.6
181	85.000	.97500	976.00	.1000-03	.1000-03	.1000-03	.1903-05	.1578-05	.1903-05	.1000-02	.9000-02	527.2
182	105.00	.40100	135.00	.2320-01	.1920-01	.2320-01	.4162-03	.3445-03	.4162-03	.2540	1.974	531.9
182	105.00	.50130	136.00	.2090-01	.1730-01	.2090-01	.3750-03	.3104-03	.3750-03	.2280	1.630	532.9
182	105.00	.60190	137.00	.7200-02	.6000-02	.7200-02	.1239-04	.1075-04	.1239-04	.7900-01	.6350	532.1
182	105.00	.70100	138.00	.2000-02	.1800-02	.2000-02	.3654-04	.3200-04	.3654-04	.2400-01	1.900	530.2
182	105.00	.80000	139.00	.9000-03	.7000-03	.9000-03	.1570-04	.1301-04	.1570-04	.1000-01	.7700-01	528.0
182	113.00	.60190	145.00	.1320-01	.1100-01	.1320-01	.2377-03	.1968-03	.2377-03	.1450	1.164	531.4
182	116.00	.60100	147.00	.1070-01	.8900-02	.1070-01	.1921-03	.1590-03	.1921-03	.1170	.9400	531.8
182	120.00	.10000-00	132.00	.6300-02	.5300-02	.6300-02	.1139-03	.9435-04	.1139-03	.7000-01	.4230	529.9
182	120.00	.80000	247.00	.2100-02	.1800-02	.2100-02	.3830-04	.3175-04	.3830-04	.2400-01	1.960	526.8
182	120.00	.60100	248.00	.3600-02	.3000-02	.3600-02	.6540-04	.5421-04	.6540-04	.4000-01	.3340	527.0
182	120.00	.80000	249.00	.4400-02	.3700-02	.4400-02	.7929-04	.6575-04	.7929-04	.4900-01	.3590	525.8
182	130.00	.80500	253.00	.2400-02	.2000-02	.2400-02	.4290-04	.3556-04	.4290-04	.2600-01	.2120	526.6

AEDC VKF V418-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V418-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
182	130.00	.82900	254.00	.4700-02	.3900-02	.4700-02	.8507-04	.7053-04	.8507-04	.5200-01	.4080	526.5
182	130.00	.85200	255.00	.5000-02	.4200-02	.5000-02	.9024-04	.7483-04	.9024-04	.5600-01	.4620	525.6
182	135.00	.40100	142.00	.2000-02	.1700-02	.2000-02	.3681-04	.3050-04	.3681-04	.2300-01	.1760	528.6
182	135.00	.50100	143.00	.2000-02	.1700-02	.2000-02	.3609-04	.2990-04	.3609-04	.2200-01	.1830	529.4
182	135.00	.60100	144.00	.6600-02	.5500-02	.6600-02	.1183-03	.9800-04	.1183-03	.7200-01	.5640	529.3
182	135.00	.70100	145.00	.2100-02	.1800-02	.2100-02	.3835-04	.3178-04	.3835-04	.2400-01	.1890	528.0
182	140.00	.18000	85.000	.5900-02	.4800-02	.5800-02	.1045-03	.8658-04	.1045-03	.6400-01	.4650	530.2
182	140.00	.19500	87.000	.5300-02	.4400-02	.5300-02	.9545-04	.7910-04	.9545-04	.5900-01	.4540	528.3
182	145.00	.80500	259.00	.2200-02	.1800-02	.2200-02	.3838-04	.3232-04	.3838-04	.2400-01	.1870	526.1
183	145.00	.82900	260.00	.2470-01	.2050-01	.2470-01	.4424-03	.3669-03	.4424-03	.2730	2.066	525.2
183	145.00	.66200	261.00	.3300-02	.2700-02	.3300-02	.5862-04	.4862-04	.5862-04	.3600-01	.3010	524.5
182	150.00	.16000	85.000	.7200-02	.6000-02	.7200-02	.1232-03	.1071-03	.1232-03	.7900-01	.5920	529.4
182	150.00	.18000	84.000	.9000-02	.7500-02	.9000-02	.1624-03	.1346-03	.1624-03	.1000-00	.7450	529.0
182	150.00	.19000	82.000	.2000-03	.2000-03	.2000-03	.3378-05	.2793-05	.3378-05	.2000-02	1.500-01	536.0
182	155.00	.16000	80.000	.1020-01	.8500-02	.1020-01	.1840-03	.1524-03	.1840-03	.1130	.8430	529.6
182	155.00	.16500	83.000	.2000-03	.2000-03	.2000-03	.3727-05	.3082-05	.3727-05	.2000-02	1.700-01	536.1
182	155.00	.18000	77.000	.1240-01	.1020-01	.1240-01	.2218-03	.1837-03	.2218-03	.1360	1.088	530.2
182	160.00	.15000	81.000	.3260-01	.2730-01	.3260-01	.5846-03	.4841-03	.5846-03	.3570	2.585	530.9
182	175.00	.15500	79.000	.1820-01	.1510-01	.1820-01	.3269-03	.2707-03	.3269-03	.2000	1.496	530.3
182	175.00	.17500	78.000	.2340-01	.2100-01	.2340-01	.4563-03	.3779-03	.4563-03	.2790	2.020	530.4
181	180.00	.10000-01	59.000	.1120	.9600-01	.1120	.1995-02	.1642-02	.1995-02	1.203	8.969	536.5
181	180.00	.10000-01	60.000	.3100-01	.2500-01	.3100-01	.5488-03	.4542-03	.5488-03	.3340	2.416	533.2
181	180.00	.10000-01	61.000	.1470-01	.1210-01	.1470-01	.2601-03	.2154-03	.2601-03	.1590	1.017	531.7
181	180.00	.10000-01	62.000	.1000-01	.8300-02	.1000-01	.1774-03	.1469-03	.1774-03	.1080	.6950	531.1
181	180.00	.10000-01	63.000	.1070-01	.8800-02	.1070-01	.1893-03	.1567-03	.1893-03	.1160	.7640	530.6
181	180.00	.12500	64.000	.1520-01	.1260-01	.1520-01	.2696-03	.2233-03	.2696-03	.1650	1.157	530.3
181	180.00	.15000	65.000	.2120-01	.1760-01	.2120-01	.3760-03	.3114-03	.3760-03	.2300	1.614	530.3
181	180.00	.16000	66.000	.5420-01	.4480-01	.5420-01	.9599-03	.7948-03	.9599-03	.5860	3.287	531.6
181	180.00	.17000	67.000	.7890-01	.6530-01	.7890-01	.1398-02	.1157-02	.1398-02	.8530	4.780	532.1
181	180.00	.20000	68.000	.1650-01	.1370-01	.1650-01	.2934-03	.2431-03	.2934-03	.1800	1.123	528.6
181	180.00	.40100	72.000	.4000-02	.3300-02	.4000-02	.7068-04	.5858-04	.7068-04	.4300-01	.3720	527.7
181	180.00	.50000	73.000	.2800-02	.2300-02	.2800-02	.5008-04	.4151-04	.5008-04	.3100-01	.2640	527.6
181	180.00	.60100	74.000	.3300-02	.2700-02	.3300-02	.5795-04	.4804-04	.5795-04	.3600-01	.2960	527.2
181	180.00	.70100	75.000	.3300-02	.2700-02	.3300-02	.5877-04	.4872-04	.5877-04	.3600-01	.2910	526.5

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1806)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .000C SPDBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	SHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
154	7.940	1.027	40.07	.0000	180.0	211.6	.2300-01	1267.	93.10	1.004	3753.	.2051-04
155	7.940	1.013	40.11	.0000	180.0	209.8	.2300-01	1271.	93.40	.9960	3761.	.2026-04
156	7.940	1.023	40.08	.0000	180.0	210.3	.2300-01	1265.	93.00	.9980	3751.	.2041-04

RUN NUMBER	MJ	LB-SEC /FT <sup>2</sup>	WREF BTU/ R F <sup>2</sup> SEC	ST FR R =
154	7.93-07	0.0175	0.0175	0.0175
155	7.922-07	0.014-01	0.014-01	0.014-01
156	7.985-07	0.024-01	0.024-01	0.024-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R F <sup>2</sup> SEC	H(10) BTU/ R F <sup>2</sup> SEC	H(1AW) BTU/ R F <sup>2</sup> SEC	QDOT BTU/ R F <sup>2</sup> SEC	DTWOT DEG. R /SEC	TW DEG. R
154	.00000	.00000	1.0000	.6033	.4949	.5386	.1478-01	.1212-01	.1319-01	8.546	47.18	561.8
154	.00000	.50000-02	2.0000	.7055	.5770	.5770	.1731-01	.1414-01	.1414-01	9.762	66.88	576.0
154	.00000	.10000-01	3.0000	.6571	.5375	.5439	.1610-01	.1317-01	.1332-01	9.162	61.03	570.8
154	.00000	.20000-01	4.0000	.4351	.3593	.3728	.1068-01	.0779-02	.0932-02	6.236	34.52	556.3
154	.00000	.30000-01	5.0000	.3455	.2850	.3012	.0483-02	.0382-02	.0580-02	4.994	27.64	552.7
154	.00000	.40000-01	6.0000	.2776	.2531	.2672	.74-2-02	.5125-02	.65-7-02	4.399	24.37	550.2
154	.00000	.50000-01	7.0000	.2776	.2280	.2460	.69-2-02	.5527-02	.6028-02	3.551	25.56	557.6
154	.00000	.60000-01	8.0000	.2834	.2323	.2529	.69-2-02	.5707-02	.6195-02	4.061	25.71	554.9
154	.00000	.70000-01	9.0000	.2446	.2009	.2196	.5993-02	.4923-02	.5381-02	3.493	24.16	557.1
154	.00000	.80000-01	10.000	.1933	.1539	.1800	.4683-02	.4015-02	.4410-02	2.860	19.81	554.3
154	.00000	.90000-01	11.000	.1905	.1568	.1728	.4563-02	.3841-02	.4233-02	2.747	17.42	551.5
154	.00000	.10000-00	12.000	.1787	.1470	.1626	.4319-02	.3601-02	.3934-02	2.568	15.39	553.4
154	.00000	.12000	14.000	.1659	.1529	.1699	.4552-02	.3746-02	.4163-02	2.682	14.88	550.8
154	.00000	.13000	15.000	.1523	.1253	.1335	.4732-02	.3870-02	.4219-02	2.193	12.81	552.2
154	.00000	.14000	16.000	.1471	.1211	.1343	.4604-02	.3856-02	.4205-02	2.120	13.44	551.8
154	.00000	.15000	17.000	.1512	.1243	.1399	.4733-02	.3846-02	.4203-02	2.173	13.38	553.2
154	.00000	.16000	18.000	.1507	.1239	.1385	.4691-02	.3835-02	.4195-02	2.163	13.70	554.0

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AEDC VKF V41B-57A (04-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1806)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAL)	H(9TO) BTU/ R FT/SEC	H(10) BTU/ R FT/SEC	H(11AN) BTU/ R FT/SEC	QOOT BTU/ FT/SEC	DTWOT DEG. R /SEC	TH DEG. R
154	.00000	.18000	20.000	.1509	.1241	.139C	.3698-02	.3040-02	.3405-02	2.165	13.71	554.6
154	.00000	.19000	21.000	.1464	.1205	.1351	.3588-02	.2952-02	.3309-02	2.109	13.37	552.1
154	.00000	.20000	22.000	.1427	.1173	.1317	.3495-02	.2874-02	.3227-02	2.047	12.96	554.3
154	.00000	.22500	23.000	.1353	.1113	.1253	.3315-02	.2726-02	.3059-02	1.944	12.32	553.6
154	.00000	.25000	24.000	.1320	.1085	.1224	.3234-02	.2659-02	.2993-02	1.895	12.00	553.9
154	.00000	.27500	25.000	.1218	.1001	.1129	.2984-02	.2453-02	.2766-02	1.746	11.06	554.6
154	.00000	.30000	26.000	.1165	.9740-01	.1093	.2905-02	.2355-02	.2692-02	1.692	10.70	557.5
154	.00000	.32500	27.000	.1095	.9370-01	.1125	.2684-02	.2204-02	.2753-02	1.561	10.28	557.0
154	.00000	.35000	28.000	.1035	.9000-01	.1015	.2389-02	.1551-02	.2213-02	1.388	9.591	558.9
154	.00000	.37500	29.000	.9750-01	.8010-01	.903C-01	.2321-02	.1504-02	.2150-02	1.343	9.888	561.2
154	.00000	.40000	30.000	.9470-01	.7770-01	.8770-01	.2105-02	.1288-02	.1951-02	1.219	8.974	561.1
154	.00000	.42500	31.000	.8600-01	.6820-01	.770C-01	.2038-02	.1671-02	.1887-02	1.175	8.646	563.1
154	.00000	.45000	32.000	.7790-01	.6330-01	.721C-01	.1903-02	.1555-02	.1767-02	1.100	8.371	563.4
154	.00000	.47500	33.000	.7130-01	.5650-01	.719C-01	.1887-02	.1549-02	.1772-02	1.093	8.741	560.7
154	.00000	.50000	34.000	.6410-01	.5390-01	.738C-01	.2060-02	.1689-02	.1907-02	1.188	8.736	563.2
154	.00000	.52500	35.000	.5810-01	.4830-01	.760C-01	.1887-02	.1549-02	.1772-02	1.148	8.741	562.3
154	.00000	.55000	36.000	.5130-01	.4200-01	.723C-01	.1551-02	.1273-02	.1450-02	.9010	7.375	559.3
154	.00000	.57500	37.000	.4530-01	.3500-01	.556C-01	.1432-02	.1175-02	.1355-02	.8620	7.056	559.9
154	.00000	.60000	38.000	.3920-01	.2800-01	.4930-01	.1073-02	.6820-03	.1019-02	.8290	6.775	553.9
154	.00000	.62500	39.000	.3320-01	.2100-01	.4160-01	.1034-02	.6315-03	.1029-02	.6370	4.710	552.2
154	.00000	.65000	40.000	.2710-01	.1400-01	.336C-01	.8063-03	.6632-03	.7659-03	.5780	4.576	553.0
154	.00000	.67500	41.000	.2100-01	.0700-01	.2510-01	.2130-03	.1030-03	.1247-03	.4730	3.961	553.9
154	.00000	.70000	42.000	.1490-01	.0000-01	.174C-01	.2802-03	.2313-03	.2302-03	.7500-01	.4520	539.9
154	.00000	.72500	43.000	.0880-01	.9520-01	.1075	.2844-02	.2333-02	.2634-02	1.643	12.96	562.1
154	.00000	.75000	44.000	.0270-01	.8860-01	.9780-01	.2588-02	.2122-02	.2397-02	1.491	11.75	563.9
154	.00000	.77500	45.000	.0070-01	.8190-01	.894C-01	.1731-02	.1419-02	.1603-02	.9880	8.803	563.6
154	.00000	.80000	46.000	.0070-01	.6930-01	.7830-01	.2071-02	.1698-02	.1918-02	1.192	8.766	564.3
154	.00000	.82500	47.000	.0070-01	.6220-01	.7480-01	.1978-02	.1622-02	.1832-02	1.141	8.396	562.9
154	.00000	.85000	48.000	.0010-01	.5340-01	.6110-01	.1594-02	.1308-02	.1496-02	.9230	7.282	560.8
155	.00000	.87500	49.000	.2535	.2107	.2556	.6239-02	.5143-02	.6239-02	3.722	21.78	547.8
155	.00000	.90000	50.000	.1671	.1378	.1671	.4080-02	.3364-02	.4080-02	2.438	15.49	546.8
155	.00000	.92500	51.000	.1122	.9190-01	.1122	.2748-02	.2250-02	.2748-02	1.574	11.56	567.0
154	.00000	.95000	97.000	.1274	.1045	.1274	.3122-02	.2559-02	.3122-02	1.796	13.20	564.6
154	.00000	.97500	98.000	.1231	.1026	.1231	.3065-02	.2514-02	.3065-02	1.770	13.02	562.5
155	.00000	.10000	99.000	.2345	.1935	.2345	.5727-02	.4726-02	.5727-02	3.438	19.15	543.9
154	.00000	.10250	100.000	.9900-02	.8200-02	.9900-02	.2433-03	.2008-03	.2433-03	1.460	.9030	541.0
154	.00000	.10500	101.000	.2519	.2158	.2519	.6393-02	.5268-02	.6393-02	3.805	24.16	549.1
155	.00000	.10750	102.000	.1834	.1510	.1834	.4476-02	.3687-02	.4476-02	2.660	23.63	550.1



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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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OH-49B (AEDC V41B-57A) OFB TER FUSELAGE

(RV1806)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
154	30.000	.92500	970.00	.1206	.9900-01	.1206	.2954-02	.2424-02	.2954-02	1.711	12.60	560.9
154	30.000	.95000	974.00	.1405	.1152	.1405	.3442-02	.2822-02	.3442-02	1.983	14.58	564.0
154	30.000	.97500	979.00	.8570-01	.7060-01	.8570-01	.2099-02	.1723-02	.2099-02	1.242	9.208	548.0
155	31.500	.20000	108.00	.1280	.1055	.1280	.3125-02	.2575-02	.3125-02	1.861	18.81	548.7
154	32.000	.40000	831.00	.1349	.1107	.1250	.3305-02	.2713-02	.3052-02	1.918	13.25	559.6
154	32.000	.50000	832.00	.1130	.9260-01	.1046	.2768-02	.2269-02	.2553-02	1.595	11.35	563.8
154	32.000	.60000	833.00	.9570-01	.7840-01	.8860-01	.2343-02	.1920-02	.2173-02	1.348	9.003	564.9
154	32.000	.70000	834.00	.7850-01	.6420-01	.7260-01	.1922-02	.1573-02	.1779-02	1.099	8.338	568.3
154	32.000	.80000	835.00	.7130-01	.5850-01	.6600-01	.1747-02	.1432-02	.1616-02	1.007	7.162	563.9
154	32.000	.90000	836.00	.5860-01	.5533-01	.6440-01	.1681-02	.1390-02	.1578-02	.9750	7.179	560.2
154	32.000	.95000	837.00	.7800-01	.6400-01	.7360-01	.1910-02	.1590-02	.1633-02	1.109	8.457	559.1
154	32.000	.97500	838.00	.7720-01	.6340-01	.7310-01	.1892-02	.1553-02	.1791-02	1.097	8.658	560.2
154	32.000	1.0150	839.00	.4510-01	.3710-01	.4120-01	.1104-02	.9077-03	.1009-02	.6460	5.207	554.8
154	32.000	1.0300	840.00	.4920-01	.4050-01	.4500-01	.1206-02	.9918-03	.1102-02	.7080	5.507	553.1
154	32.000	1.0450	841.00	.5400-01	.4440-01	.4930-01	.1323-02	.1088-02	.1200-02	.7750	5.927	554.0
154	32.000	1.0600	842.00	.4730-01	.3690-01	.4320-01	.1159-02	.9533-03	.1053-02	.6810	5.597	552.1
155	35.000	.50000-01	115.00	.1270	.1049	.1270	.3101-02	.2650-02	.3101-02	1.867	11.90	542.2
155	35.000	.20000	110.00	.1353	.1122	.1353	.3326-02	.2739-02	.3326-02	1.971	19.88	551.7
155	39.000	.10000-00	116.00	.1020	.8430-01	.1020	.2490-02	.2057-02	.2430-02	1.503	9.582	540.8
155	40.000	.76000-01	121.00	.2120	.5360-01	.2120	.5174-02	.4344-02	.5174-02	3.068	22.70	539.4
155	40.000	.20000	112.00	.1255	.1033	.1255	.3064-02	.2523-02	.3064-02	1.814	20.12	552.3
155	42.500	.50000-01	127.00	.8780-01	.7260-01	.8780-01	.2144-02	.1772-02	.2144-02	1.296	8.765	540.1
155	45.000	.15000	117.00	.9270-01	.7660-01	.9270-01	.2262-02	.1869-02	.2262-02	1.368	8.040	539.5
154	45.000	.92500	959.00	.2260-01	.1860-01	.2260-01	.5527-03	.4560-03	.5527-03	.3300	2.456	542.1
154	45.000	.95000	973.00	.1100-02	.9000-03	.1100-02	.2800-04	.2312-04	.2800-04	.1700-01	.1250	539.0
154	45.000	.97500	978.00	.1000-02	.8000-03	.1000-02	.2473-04	.2043-04	.2473-04	.1500-01	.1110	539.0
155	51.000	.20000	118.00	.4750-01	.3320-01	.4750-01	.1158-02	.9574-03	.1158-02	.7020	4.480	538.4
155	60.000	.50000-01	131.00	.2320-01	.1920-01	.2320-01	.5665-03	.4687-03	.5665-03	.3450	2.337	535.8
155	67.500	.20000	128.00	.2720-01	.2250-01	.2720-01	.6636-03	.5486-03	.6636-03	.4030	2.999	537.8
154	75.000	.97500	977.00	.5000-03	.4000-03	.5000-03	.9348-05	.7722-05	.9348-05	.6000-02	.5400-01	539.0
155	105.00	.40100	976.00	.4000-03	.3000-03	.4000-03	.6112-03	.5049-03	.6112-03	.3690	2.851	540.9
155	105.00	.50100	135.00	.2500-01	.2070-01	.2500-01	.1999-03	.1550-03	.1999-03	.3370	2.687	542.3
155	105.00	.60100	136.00	.8200-02	.6800-02	.8200-02	.5605-03	.4627-03	.5605-03	.1200	.9600	541.4
155	105.00	.70100	137.00	.1100-02	.9000-03	.1100-02	.2774-04	.2292-04	.2774-04	.1700-01	.1340	539.5
155	105.00	.80000	139.00	.1200-02	.1000-02	.1200-02	.2895-04	.2394-04	.2895-04	.1800-01	.1400	537.6
155	113.00	.60100	146.00	.1440-01	.1190-01	.1440-01	.3524-03	.2911-03	.3524-03	.2120	1.693	541.4
155	116.00	.70100	147.00	.1600-01	.1350-01	.1600-01	.3125-03	.2581-03	.3125-03	.1880	1.501	541.5
155	120.00	.80000-00	148.00	.4200-02	.3400-02	.4200-02	.1014-03	.8280-04	.1014-03	.6100-01	.4910	538.2
155	120.00	.90000	132.00	.5400-02	.4400-02	.5400-02	.1310-03	.1083-03	.1310-03	.8000-01	.4820	535.2
155	120.00	.80000	247.00	.1900-02	.1600-02	.1900-02	.4614-04	.3817-04	.4614-04	.2800-01	.2320	535.6
155	120.00	.82900	248.00	.3100-02	.2600-02	.3100-02	.7531-04	.6229-04	.7531-04	.4600-01	.3780	535.6

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION CHECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGEPAGE 152  
(RV1806)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
155	120.00	.85200	249.00	.7500-02	.3100-02	.3800-02	.9227-04	.7635-04	.9227-04	.5600-01	.4120	534.6
155	130.00	.82500	253.00	.2300-02	.1900-02	.2300-02	.5587-04	.4821-04	.5587-04	.3400-01	.2720	535.5
155	130.00	.82500	254.00	.3800-02	.3100-02	.3800-02	.9202-04	.7613-04	.9202-04	.5600-01	.4350	535.0
155	130.00	.85200	255.00	.4000-02	.3300-02	.4000-02	.9556-04	.7990-04	.9556-04	.5900-01	.4860	534.4
155	135.00	.40100	142.00	.1800-02	.1500-02	.1800-02	.4493-04	.3715-04	.4493-04	.2700-01	.2110	537.2
155	135.00	.50100	143.00	.1900-02	.1500-02	.1900-02	.4529-04	.3744-04	.4529-04	.2700-01	.2260	538.0
155	135.00	.60100	144.00	.3000-02	.2500-02	.3000-02	.7419-04	.6132-04	.7419-04	.4500-01	.3480	538.4
155	135.00	.70100	145.00	.1300-02	.1500-02	.1300-02	.4610-04	.3812-04	.4610-04	.2800-01	.2230	537.4
155	140.00	.18000	85.000	.6000-02	.5000-02	.6000-02	.1472-03	.1218-03	.1472-03	.9000-01	.6950	533.4
155	140.00	.19000	87.000	.6500-02	.5500-02	.6500-02	.1654-03	.1376-03	.1654-03	.1010	.7810	535.9
155	145.00	.80500	253.00	.3700-02	.3100-02	.3700-02	.3090-04	.7520-04	.3090-04	.5500-01	.4290	535.3
156	145.00	.95200	251.00	.4800-02	.4000-02	.4800-02	.1181-03	.9781-04	.1181-03	.7200-01	.5970	538.6
155	150.00	.16000	86.000	.1270-01	.1050-01	.1270-01	.3098-03	.2562-03	.3098-03	.1880	1.403	536.7
155	150.00	.18000	84.000	.1220-01	.1010-01	.1220-01	.2585-03	.2468-03	.2585-03	.1810	1.352	537.0
155	150.00	.19000	82.000	.1000-03	.1000-03	.1000-03	.3050-05	.2822-05	.3050-05	.2000-02	1.400-01	537.6
155	150.00	.16000	80.000	.1570-01	.1350-01	.1570-01	.3982-03	.3292-03	.3982-03	.2420	1.800	538.4
155	160.00	.18000	77.000	.1340-01	.1110-01	.1340-01	.3275-03	.2707-03	.3275-03	.1980	1.583	540.0
155	175.00	.15000	81.000	.4800-01	.3970-01	.4800-01	.1172-02	.9684-03	.1172-02	.7080	5.101	538.0
155	175.00	.16500	79.000	.1630-01	.1550-01	.1630-01	.4611-03	.3812-03	.4611-03	.2800	2.082	539.0
155	175.00	.17500	78.000	.3020-01	.2500-01	.3020-01	.7382-03	.6101-03	.7382-03	.4470	3.219	545.0
154	180.00	.10000-01	59.000	.1084	.8770-01	.1084	.2506-02	.2149-02	.2506-02	1.550	11.51	540.7
154	180.00	.25000-01	60.000	.2820-01	.2330-01	.2820-01	.6919-03	.5712-03	.6919-03	.4150	2.985	540.4
154	180.00	.50000-01	61.000	.1380-01	.1140-01	.1380-01	.3381-03	.2791-03	.3381-03	.2030	1.293	541.3
154	180.00	.75000-01	62.000	.1050-01	.8600-02	.1050-01	.2564-03	.2116-03	.2564-03	.1530	.9780	541.8
154	180.00	.10000-00	63.000	.1500-01	.1240-01	.1500-01	.3676-03	.3033-03	.3676-03	.2200	1.442	542.2
154	180.00	.12500	64.000	.2210-01	.1620-01	.2210-01	.5407-03	.4461-03	.5407-03	.3230	2.252	542.6
154	180.00	.15000	65.000	.3310-01	.2730-01	.3310-01	.8099-03	.6882-03	.8099-03	.4840	3.371	546.6
154	180.00	.16000	66.000	.8330-01	.6870-01	.8330-01	.2041-02	.1682-02	.2041-02	1.211	6.737	547.0
154	180.00	.17000	67.000	.9320-01	.7680-01	.9320-01	.2582-02	.1881-02	.2582-02	1.353	7.526	541.9
154	180.00	.20000	69.000	.1940-01	.1600-01	.1940-01	.4763-03	.3931-03	.4763-03	.2850	1.765	540.1
154	180.00	.43100	72.000	.3500-02	.2900-02	.3500-02	.8561-04	.7069-04	.8561-04	.5100-01	.4370	540.1
154	180.00	.50000	73.000	.4500-02	.3700-02	.4500-02	.1106-03	.9130-04	.1106-03	.6600-01	.5640	540.1
154	180.00	.60100	74.000	.4500-02	.3700-02	.4500-02	.1092-03	.9019-04	.1092-03	.6600-01	.5390	540.1
154	180.00	.70100	75.000	.3600-02	.3000-02	.3600-02	.8933-04	.7378-04	.8933-04	.5400-01	.4280	539.0

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## FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1806)

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	P0 PSIA	P PSIA	TO DEG. R	T DEG. R	O PSIA	V FT/SEC	RHO SLUGS /FT3
130	7.970	1.507	40.11	.0000	180.0	321.2	.3400-01	1287.	93.90	1.499	3785.	.3011-04
131	7.970	1.517	40.08	.0000	180.0	320.8	.3400-01	1281.	93.40	1.497	3775.	.3023-04
132	7.970	1.527	40.13	.0000	180.0	321.5	.3400-01	1277.	93.20	1.501	3770.	.3039-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =	HREF BTU/ R FT2SEC
130	.7563-07	3002-01	0.0175	3002-01
131	.7523-07	2997-01	.3318-01	2997-01
132	.7502-07	2999-01	.3301-01	2999-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R-0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
130	.00000	.00000	1.0000	.6066	.4992	.5420	.1821-01	.1495-01	.1627-01	10.77	59.29	567.2
130	.00000	.5000-02	2.0000	.7038	.5748	.5748	.2113-01	.1725-01	.1725-01	12.11	82.61	585.3
130	.00000	.10000-01	3.0000	.6428	.5260	.5322	.1930-01	.1579-01	.1593-01	11.19	74.21	578.9
130	.00000	.20000-01	4.0000	.4354	.3582	.3725	.1307-01	.1075-01	.1118-01	7.813	43.15	560.8
130	.00000	.30000-01	5.0000	.3372	.2778	.2935	.1012-01	.8341-02	.8811-02	6.100	33.77	556.0
130	.00000	.40000-01	6.0000	.3045	.2511	.2681	.9140-02	.7538-02	.8049-02	5.536	30.69	552.9
130	.00000	.50000-01	7.0000	.2746	.2259	.2436	.8244-02	.6781-02	.7311-02	4.919	32.91	561.9
130	.00000	.60000-01	8.0000	.2325	.2325	.2523	.8460-02	.6982-02	.7573-02	5.088	32.15	558.5
130	.00000	.70000-01	9.0000	.2456	.2021	.2207	.7374-02	.6066-02	.6625-02	4.403	30.39	561.5
130	.00000	.80000-01	10.0000	.1937	.1644	.1804	.5994-02	.4936-02	.5417-02	3.603	24.91	557.5
130	.00000	.90000-01	11.0000	.1832	.1551	.1708	.5649-02	.4657-02	.5126-02	3.416	21.63	553.9
130	.00000	.10000-02	12.0000	.1781	.1469	.1622	.5348-02	.4409-02	.4870-02	3.233	19.37	554.1
130	.00000	.12000	14.0000	.1771	.1461	.1621	.5316-02	.4386-02	.4867-02	3.227	17.91	551.5
130	.00000	.13000	15.0000	.1560	.1286	.1430	.4683-02	.3862-02	.4294-02	2.835	16.54	553.2
130	.00000	.14000	16.0000	.1452	.1198	.1333	.4359-02	.3595-02	.4002-02	2.642	16.74	552.5
130	.00000	.16000	18.0000	.1515	.1249	.1394	.4549-02	.3750-02	.4184-02	2.749	16.53	554.2
130	.00000	.17000	19.0000	.1484	.1223	.1367	.4456-02	.3672-02	.4103-02	2.688	17.02	555.3

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OH-498 (AECC V41B-57A) ORBITER FUSELAGE

(RV1806)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(OTO) BTU/R	H(OTO) FT/SEC	H(OTA) BTU/R	ODOT BTU/R	DTWOT DEG. R	TW DEG. R
130	.00000	.18000	20.000	.1509	.1244	.1391	.4530-02	.3733-02	.4175-02	2.731	17.28	555.8
130	.00000	.19000	21.000	.1464	.1207	.1351	.4394-02	.3624-02	.4056-02	2.662	16.87	552.8
130	.00000	.20000	22.000	.1434	.1181	.1324	.4303-02	.3546-02	.3976-02	2.595	16.42	555.6
130	.00000	.22500	23.000	.1337	.1101	.1238	.4013-02	.3306-02	.3716-02	2.417	15.29	556.3
130	.00000	.25000	801.00	.1300	.1071	.1206	.3901-02	.3214-02	.3619-02	2.348	14.85	556.8
130	.00000	.30000	802.00	.1216	.1002	.1128	.3651-02	.3007-02	.3387-02	2.194	13.87	557.8
130	.00000	.35000	803.00	.1243	.1022	.1152	.3730-02	.3069-02	.3458-02	2.228	14.06	561.3
130	.00000	.40000	804.00	.1233	.1014	.1143	.3701-02	.3044-02	.3431-02	2.210	14.36	561.3
130	.00000	.45000	805.00	.1082	.6390-01	.1012	.3277-02	.2695-02	.3038-02	1.952	13.05	562.9
130	.00000	.50000	806.00	.5580-01	.7350-01	.8970-01	.2905-02	.2398-02	.2693-02	1.727	11.91	563.9
130	.00000	.55000	807.00	.9290-01	.7630-01	.8610-01	.2790-02	.2291-02	.2585-02	1.651	12.12	566.9
130	.00000	.60000	808.00	.6660-01	.7110-01	.8020-01	.2593-02	.2134-02	.2408-02	1.537	11.29	567.0
130	.00000	.65000	809.00	.8390-01	.6880-01	.7760-01	.2516-02	.2064-02	.2330-02	1.481	10.86	569.7
130	.00000	.70000	810.00	.6690-01	.6400-01	.7490-01	.2429-02	.1992-02	.2249-02	1.428	10.82	570.8
130	.00000	.75000	811.00	.6690-01	.7030-01	.7940-01	.2575-02	.2112-02	.2384-02	1.512	11.08	571.2
130	.00000	.80000	812.00	.9520-01	.7610-01	.8820-01	.2693-02	.2345-02	.2647-02	1.679	12.30	571.4
130	.00000	.85000	813.00	.9460-01	.7780-01	.8680-01	.2847-02	.2334-02	.2665-02	1.671	12.66	571.7
130	.00000	.90000	814.00	.9390-01	.7710-01	.8810-01	.2818-02	.2313-02	.2645-02	1.662	11.80	568.6
130	.00000	.95000	815.00	.6500-01	.6610-01	.7570-01	.2415-02	.1983-02	.2273-02	1.428	11.65	567.2
130	.00000	.99000	816.00	.8310-01	.6820-01	.7840-01	.2553-02	.2048-02	.2354-02	1.472	11.99	568.6
130	.00000	.97500	817.00	.6510-01	.6980-01	.8050-01	.2593-02	.2094-02	.2415-02	1.498	12.19	571.8
130	.00000	1.0150	818.00	.6930-01	.5700-01	.6980-01	.2079-02	.1711-02	.1975-02	1.244	9.161	560.3
130	.00000	1.0300	819.00	.6700-01	.5920-01	.6370-01	.2012-02	.1657-02	.1912-02	1.208	8.907	558.3
130	.00000	1.0450	820.00	.6410-01	.5370-01	.6030-01	.1923-02	.1582-02	.1826-02	1.151	9.081	560.2
130	.00000	1.0600	821.00	.5350-01	.4400-01	.5680-01	.1686-02	.1322-02	.1526-02	.9600	8.002	561.0
130	.00000	1.5000	89.000	.4700-02	.6900-02	.8400-02	.1396-03	.1156-03	.1396-03	.8600-01	.5227	539.5
130	.00000	2.0000	91.000	.8400-02	.6900-02	.8400-02	.2515-03	.2082-03	.2515-03	1.550	.9640	540.2
130	.00000	5.0000-01	90.000	.9300-02	.7700-02	.9300-02	.2805-03	.2322-03	.2805-03	1.730	1.047	540.2
130	.00000	823.00	823.00	.1150	.9450-01	.1066	.3453-02	.2836-02	.3199-02	2.042	16.06	567.2
130	.00000	824.00	824.00	.1045	.8570-01	.9580-01	.3136-02	.2574-02	.2905-02	1.847	14.50	569.8
130	.00000	825.00	825.00	.6910-01	.5670-01	.6400-01	.2073-02	.1701-02	.1920-02	1.220	10.73	570.0
130	.00000	826.00	826.00	.6540-01	.7000-01	.7810-01	.2563-02	.2102-02	.2373-02	1.505	11.02	571.5
130	.00000	827.00	827.00	.8850-01	.7260-01	.8190-01	.2655-02	.2178-02	.2459-02	1.561	11.43	570.8
130	.00000	828.00	828.00	.7990-01	.6560-01	.7520-01	.2393-02	.1959-02	.2252-02	1.416	11.13	568.3
131	.00000+00	103.00	103.00	.2527	.2091	.2627	.7573-02	.6238-02	.7573-02	4.532	26.43	594.1
131	.00000	104.00	104.00	.1683	.1387	.1683	.5045-02	.4159-02	.5045-02	3.031	19.22	551.8
130	.00000	971.00	971.00	.1349	.1105	.1349	.4050-02	.3318-02	.4050-02	2.364	17.29	574.9
130	.00000	975.00	975.00	.1480	.1213	.1480	.4442-02	.3642-02	.4442-02	2.605	19.07	572.2
130	.00000	980.00	980.00	.1367	.1121	.1367	.4103-02	.3366-02	.4103-02	2.414	17.70	570.1
131	.00000-01	105.00	105.00	.2340	.1931	.2340	.7014-02	.5788-02	.7014-02	4.230	23.55	548.4
130	.00000	93.000	93.000	.9800-02	.8100-02	.9800-02	.2950-03	.2441-03	.2950-03	1.820	1.130	540.6
131	.00000	106.00	106.00	.2693	.2217	.2693	.8072-02	.6645-02	.8072-02	4.816	30.47	555.9
131	.00000	107.00	107.00	.1818	.1455	.1818	.5450-02	.4484-02	.5450-02	3.240	28.67	558.0

REPRODUCIBILITY OF THE  
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AEDC VKF V41B-57A (OH-498) COLLATION DECK

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H18T01 BTU/ R FT2SEC	H1701 BTU/ R FT2SEC	H16T01 BTU/ R FT2SEC	H15T01 BTU/ R FT2SEC	H14T01 BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
130	30.000	.92500	970.00	.1328	.1090	.1328	.3886-02	.3273-02	.3986-02	.3986-02	.3986-02	2.355	17.28	567.8
130	30.000	.95000	974.00	.1358	.1358	.1668	.5008-02	.4107-02	.5008-02	.5008-02	.5008-02	2.941	21.55	571.2
130	30.000	.97500	979.00	.1250-01	.7610-01	.9240-01	.2773-02	.2285-02	.2773-02	.2773-02	.2773-02	1.674	12.36	554.9
131	31.500	.20000	108.00	.1256	.1034	.1256	.3766-02	.3100-02	.3766-02	.3766-02	.3766-02	2.245	22.59	556.4
130	32.000	.40000	831.00	.1124	.1124	.1258	.4104-02	.3375-02	.3805-02	.3805-02	.3805-02	2.447	16.88	562.4
130	32.000	.50000	832.00	.1132	.9200-01	.1049	.3401-02	.2791-02	.3150-02	.3150-02	.3150-02	2.005	14.23	569.2
130	32.000	.60000	833.00	.1132	.8200-01	.9550-01	.2337-02	.2403-02	.2720-02	.2720-02	.2720-02	1.725	11.49	571.2
130	32.000	.70000	834.00	.1132	.7710-01	.7140-01	.2314-02	.1637-02	.2142-02	.2142-02	.2142-02	1.356	10.26	572.7
130	32.000	.80000	835.00	.1132	.7280-01	.7200-01	.2335-02	.1916-02	.2162-02	.2162-02	.2162-02	1.374	9.742	570.3
130	32.000	.90000	836.00	.1132	.6240-01	.7730-01	.2473-02	.2030-02	.2321-02	.2321-02	.2321-02	1.461	10.72	567.7
130	32.000	.95000	837.00	.1132	.5770-01	.9220-01	.2932-02	.2408-02	.2767-02	.2767-02	.2767-02	1.732	13.15	567.8
130	32.000	.97500	838.00	.1132	.5330-01	.5660-01	.1926-02	.1584-02	.1759-02	.1759-02	.1759-02	1.758	13.81	568.9
130	32.000	1.01500	839.00	.1132	.4930-01	.5660-01	.2056-02	.1700-02	.1888-02	.1888-02	.1888-02	1.236	9.206	562.9
130	32.000	1.03000	840.00	.1132	.4630-01	.5660-01	.2220-02	.1827-02	.2028-02	.2028-02	.2028-02	1.327	9.595	560.3
130	32.000	1.04500	841.00	.1132	.4290-01	.5660-01	.1874-02	.1542-02	.1712-02	.1712-02	.1712-02	1.123	9.201	560.8
130	32.000	1.06000	842.00	.1132	.3940-01	.5660-01	.3753-02	.3098-02	.3753-02	.3753-02	.3753-02	2.275	14.46	546.4
130	32.000	1.07500	115.00	.1134	.1105	.1344	.4027-02	.3311-02	.4027-02	.4027-02	.4027-02	2.386	23.97	559.9
131	35.000	.20000	110.00	.1143	.6610-01	.1043	.3127-02	.2582-02	.3127-02	.3127-02	.3127-02	1.898	12.07	545.6
131	39.000	.10000+00	116.00	.1143	.5980-01	.7230-01	.2168-02	.1791-02	.2168-02	.2168-02	.2168-02	1.321	8.416	542.9
131	40.000	.76000-01	121.00	.1143	.5230-01	.2086	.6254-02	.5144-02	.6254-02	.6254-02	.6254-02	2.281	25.20	559.2
131	40.000	.15000	111.00	.1143	.1716	.2086	.3852-02	.3167-02	.3852-02	.3852-02	.3852-02	1.606	10.84	560.5
131	40.000	.20000	112.00	.1143	.1057	.1285	.2640-02	.211-02	.2640-02	.2640-02	.2640-02	1.606	10.84	544.2
131	42.000	.50000-01	127.00	.1143	.7280-01	.1285	.2640-02	.211-02	.2640-02	.2640-02	.2640-02	1.606	10.84	545.1
131	45.000	.15000	117.00	.1143	.9080-01	.9080-01	.2721-02	.2247-02	.2721-02	.2721-02	.2721-02	1.653	9.686	543.6
130	45.000	.92500	969.00	.1143	.2460-01	.2970-01	.8929-03	.7383-03	.8929-03	.8929-03	.8929-03	5.450	4.078	539.7
130	45.000	.95000	973.00	.1143	.1400-02	.1700-02	.5063-04	.4192-04	.5063-04	.5063-04	.5063-04	3.100-01	.2330	539.4
130	45.000	.97500	978.00	.1143	.1000-02	.1300-02	.3754-04	.3108-04	.3754-04	.3754-04	.3754-04	2.300-01	.1730	539.4
131	51.000	.20000	118.00	.1143	.3890-01	.4700-01	.1410-02	.1165-02	.1410-02	.1410-02	.1410-02	8.590	5.468	539.0
131	60.000	.50000-01	131.00	.1143	.1820-01	.2200-01	.6605-03	.5464-03	.6605-03	.6605-03	.6605-03	4.050	2.743	539.0
131	60.000	.97500	128.00	.1143	.2230-01	.2770-01	.8315-03	.6872-03	.8315-03	.8315-03	.8315-03	5.070	3.768	542.9
130	75.000	.97500	976.00	.1143	.3000-03	.3000-03	.9888-05	.8186-05	.9888-05	.9888-05	.9888-05	6.000-02	4.500-01	539.2
130	85.000	.97500	976.00	.1143	.3000-03	.3000-03	.1122-04	.9292-05	.1122-04	.1122-04	.1122-04	7.000-02	5.200-01	539.1
131	105.00	.40100	135.00	.1143	.1550-01	.2360-01	.7075-03	.5844-03	.7075-03	.7075-03	.7075-03	4.300	3.317	544.5
131	105.00	.60100	136.00	.1143	.2210-01	.2680-01	.8029-03	.6629-03	.8029-03	.8029-03	.8029-03	4.870	3.870	546.0
131	105.00	.80100	137.00	.1143	.1300-02	.1600-02	.4788-04	.3958-04	.4788-04	.4788-04	.4788-04	1.121	1.121	543.9
131	105.00	.90100	138.00	.1143	.1400-02	.1700-02	.2315-03	.1912-03	.2315-03	.2315-03	.2315-03	2.900-01	2.900-01	541.9
131	113.00	.60100	146.00	.1143	.1200-01	.1470-01	.5003-04	.4138-04	.5003-04	.5003-04	.5003-04	3.100-01	2.440	540.0
131	116.00	.60100	147.00	.1143	.1400-02	.1700-02	.5003-04	.4138-04	.5003-04	.5003-04	.5003-04	3.100-01	2.440	541.9
131	116.00	.75100	148.00	.1143	.2400-02	.2900-02	.8815-04	.7291-04	.8815-04	.8815-04	.8815-04	3.090	2.462	543.9
131	120.00	.10000+00	148.00	.1143	.2400-02	.2900-02	.8815-04	.7291-04	.8815-04	.8815-04	.8815-04	3.090	2.462	539.7
131	120.00	.60500	247.00	.1143	.1500-02	.1800-02	.5543-04	.4567-04	.5543-04	.5543-04	.5543-04	5.200-01	4.310	538.8
131	120.00	.62500	248.00	.1143	.2400-02	.2800-02	.8513-04	.7046-04	.8513-04	.8513-04	.8513-04	5.200-01	4.310	537.9

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
131	120.00	.86200	249.00	.4200-02	.3500-02	.4200-02	.1259-03	.1042-03	.1259-03	.7800-01	.5660	537.1
131	130.00	.80500	253.00	.1700-02	.1400-02	.1700-02	.5234-04	.4332-04	.5234-04	.3200-01	.2570	537.8
131	130.00	.82900	254.00	.3400-02	.2800-02	.3400-02	.1012-03	.8373-04	.1012-03	.6200-01	.4820	537.3
131	130.00	.86200	255.00	.4500-02	.3700-02	.4500-02	.1350-03	.1118-03	.1350-03	.8200-01	.6860	537.0
131	135.00	.40100	142.00	.1600-02	.1300-02	.1600-02	.4653-04	.3849-04	.4653-04	.2800-01	.2200	540.2
131	135.00	.50100	143.00	.1300-02	.1100-02	.1300-02	.3332-04	.3251-04	.3332-04	.2400-01	.1980	540.8
131	135.00	.60100	144.00	.2600-02	.2200-02	.2600-02	.7842-04	.6484-04	.7842-04	.4800-01	.3700	541.3
131	135.00	.70100	145.00	.2800-02	.2300-02	.2800-02	.8368-04	.6920-04	.8368-04	.5100-01	.4090	540.1
131	140.00	.19500	87.000	.9200-02	.7600-02	.9200-02	.2762-03	.2284-03	.2762-03	.1690	1.301	540.4
131	145.00	.60500	259.00	.2300-02	.1900-02	.2300-02	.6890-04	.5703-04	.6890-04	.4200-01	.3280	537.3
132	145.00	.86200	261.00	.3500-02	.3000-02	.3500-02	.1086-03	.8989-04	.1086-03	.6700-01	.5510	535.1
131	150.00	.16000	86.000	.1500-01	.1200-01	.1500-01	.4625-03	.3824-03	.4625-03	.2830	2.104	540.9
131	150.00	.18000	84.000	.1400-01	.1160-01	.1400-01	.4191-03	.3466-03	.4191-03	.2550	1.907	540.8
131	150.00	.19000	82.000	.1000-03	.1000-03	.1000-03	.3750-05	.3104-05	.3750-05	.2000-02	1.700	537.4
131	155.00	.16000	80.000	.2150-01	.1770-01	.2150-01	.6431-03	.5317-03	.6431-03	.3930	2.923	541.4
131	155.00	.18000	83.000	.2000-03	.2000-03	.2000-03	.6971-05	.5770-05	.6971-05	.4000-02	2.039	542.1
131	160.00	.18000	77.000	.1400-01	.1160-01	.1400-01	.4152-03	.3465-03	.4152-03	.2560	2.039	542.1
131	175.00	.15000	81.000	.5650-01	.4670-01	.5650-01	.1696-02	.1401-02	.1696-02	1.031	7.406	541.7
131	175.00	.16500	79.000	.1840-01	.1520-01	.1840-01	.5512-03	.4557-03	.5512-03	.3370	2.505	541.5
131	175.00	.17500	78.000	.3300-01	.2730-01	.3300-01	.9901-03	.8183-03	.9901-03	.6040	4.344	542.6
130	180.00	.10000-01	53.000	.1047	.6660-01	.1047	.3144-02	.2598-02	.3144-02	1.926	14.29	546.0
130	180.00	.25000-01	60.000	.2710-01	.2240-01	.2710-01	.8121-03	.6721-03	.8121-03	.5020	3.615	540.4
130	180.00	.50300-01	61.000	.1350-01	.1120-01	.1350-01	.4066-03	.3366-03	.4066-03	.2520	1.605	539.7
130	180.00	.75000-01	62.000	.1160-01	.9600-02	.1160-01	.3480-03	.2880-03	.3480-03	.2150	1.372	540.4
130	180.00	.10000+00	63.000	.1840-01	.1520-01	.1840-01	.5530-03	.4576-03	.5530-03	.3410	2.239	541.4
130	180.00	.12500	64.000	.2480-01	.2060-01	.2480-01	.7459-03	.6170-03	.7459-03	.4600	3.203	542.3
130	180.00	.15000	65.000	.3520-01	.2910-01	.3520-01	.1057-02	.8747-03	.1057-02	.65	4.538	542.7
130	180.00	.16000	66.000	.8980-01	.7410-01	.8980-01	.2594-02	.2225-02	.2594-02	1.646	9.154	547.5
130	180.00	.17000	67.000	.1107	.9140-01	.1107	.3323-02	.2744-02	.3323-02	2.025	11.25	549.2
130	180.00	.20000	69.000	.1830-01	.1520-01	.1830-01	.5507-03	.4556-03	.5507-03	.3400	2.105	541.7
130	180.00	.40100	72.000	.4400-02	.3700-02	.4400-02	.1333-03	.1103-03	.1333-03	.6200-01	.7000	541.0
130	180.00	.50000	73.000	.4800-02	.4000-02	.4800-02	.1453-03	.1202-03	.1453-03	.9000-01	.7620	541.1
130	180.00	.60100	74.000	.5400-02	.4500-02	.5400-02	.1620-03	.1340-03	.1620-03	.1000+00	.8230	540.9
130	180.00	.70100	75.000	.4100-02	.3400-02	.4100-02	.1227-03	.1016-03	.1227-03	.7600-01	.6050	539.9

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B06)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPDRK = .0000  
 BDFLAP = .0000 MACH = 8.0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 <sup>6</sup> /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	P0 PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
100	7.980	2.007	40.07	.0000	180.0	431.9	.4500-01	1292.	94.10	2.004	3793.	.4009-04
101	7.980	2.001	40.11	.0000	180.0	431.0	.4500-01	1293.	94.10	2.000	3794.	.3999-04
102	7.980	2.006	40.09	.0000	180.0	432.0	.4500-01	1293.	94.20	2.005	3794.	.4008-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
100	.7576-07	.3473-01	0.0175
101	.7580-07	.3470-01	.2877-01
102	.7580-07	.3474-01	.2878-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(14W) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTWDT DEG. R /SEC	TW DEG. R
100	.00000	.00000	1.0000	.5931	.4871	.5293	.2060-01	.1692-01	.1840-01	12.24	67.30	569.2
100	.00000	.50000-02	2.0000	.7034	.5741	.5741	.2443-01	.1994-01	.1994-01	14.02	95.41	589.4
100	.00000	.10000-01	3.0000	.6410	.5242	.5305	.2227-01	.1821-01	.1842-01	12.92	85.50	583.2
100	.00000	.20000-01	4.0000	.4335	.3569	.3711	.1506-01	.1240-01	.1289-01	9.056	49.98	562.0
100	.00000	.30000-01	5.0000	.3339	.2752	.2908	.1160-01	.9560-01	.1010-01	7.031	38.91	557.0
100	.00000	.40000-01	6.0000	.2742	.2263	.2417	.9525-02	.7861-02	.8394-02	5.814	32.24	552.8
100	.00000	.50000-01	7.0000	.2751	.2263	.2440	.9554-02	.7860-02	.8475-02	5.729	38.30	563.7
100	.00000	.60000-01	8.0000	.2820	.2323	.2520	.9796-02	.8068-02	.8751-02	5.913	37.34	559.6
100	.00000	.70000-01	9.0000	.2487	.2047	.2235	.8638-02	.7108-02	.7764-02	5.187	35.78	562.7
100	.00000	.80000-01	10.000	.2000	.1648	.1808	.6946-02	.5723-02	.6280-02	4.201	29.03	558.5
100	.00000	.90000-01	11.000	.1915	.1579	.1738	.6651-02	.5486-02	.6038-02	4.050	25.64	554.3
100	.00000	.10000+00	12.000	.1768	.1459	.1611	.6142-02	.5066-02	.5596-02	3.738	22.39	554.6
100	.00000	.12000	14.000	.1722	.1422	.1577	.5980-02	.4938-02	.5478-02	3.662	20.33	550.9
100	.00000	.13000	15.000	.1567	.1293	.1437	.5442-02	.4491-02	.4992-02	3.320	19.37	553.2
100	.00000	.14000	16.000	.1435	.1185	.1313	.4986-02	.4116-02	.4580-02	3.046	19.31	552.3
100	.00000	.15000	18.000	.1508	.1244	.1387	.5237-02	.4320-02	.4819-02	3.189	19.63	554.3
100	.00000	.17000	19.000	.1511	.1246	.1392	.5247-02	.4327-02	.4834-02	3.190	20.19	555.3

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. /SEC	TW DEG. R
100	00000	180000	20.000	.1521	.1254	.1403	.5284-02	.4357-02	.4872-02	3.209	20.31	555.9
100	00000	150000	21.000	.1462	.1207	.1350	.5079-02	.4192-02	.4691-02	3.101	19.65	552.8
100	00000	200000	22.000	.1420	.1171	.1313	.4932-02	.4067-02	.4559-02	3.000	18.99	555.0
100	00000	225000	23.000	.1305	.1078	.1210	.4536-02	.3743-02	.4204-02	2.765	17.53	553.4
100	00000	250000	801.00	.1301	.1073	.1208	.4519-02	.3729-02	.4196-02	2.755	17.45	553.7
100	00000	300000	802.00	.1200	.9900-01	.1114	.4168-02	.3438-02	.3669-02	2.537	16.06	554.6
100	00000	350000	803.00	.1301	.1071	.1207	.4517-02	.3722-02	.4192-02	2.731	17.25	558.7
100	00000	400000	804.00	.1215	.1000+00	.1127	.4219-02	.3475-02	.3914-02	2.547	16.56	559.5
100	00000	450000	805.00	.1115	.9180-01	.1035	.3674-02	.3189-02	.3593-02	2.326	15.56	562.8
100	00000	500000	806.00	.9780-01	.8050-01	.9070-01	.3398-02	.2795-02	.3151-02	2.036	14.03	564.1
100	00000	550000	807.00	.9310-01	.7650-01	.8630-01	.3234-02	.2658-02	.2938-02	1.927	14.14	567.3
100	00000	600000	808.00	.8720-01	.7160-01	.8080-01	.3028-02	.2468-02	.2807-02	1.803	13.23	567.9
100	00000	650000	809.00	.8500-01	.6980-01	.7880-01	.2954-02	.2425-02	.2737-02	1.750	12.82	570.7
100	00000	700000	810.00	.8800-01	.7220-01	.8150-01	.3056-02	.2508-02	.2831-02	1.807	13.69	571.8
100	00000	750000	811.00	.1043	.8560-01	.9660-01	.3622-02	.2973-02	.3355-02	2.143	15.70	571.5
100	00000	800000	812.00	.1206	.9900-01	.1118	.4190-02	.3440-02	.3882-02	2.484	18.21	570.3
100	00000	850000	813.00	.1307	.1073	.1224	.4540-02	.3728-02	.4253-02	2.695	20.44	569.6
100	00000	900000	814.00	.1405	.1155	.1320	.4681-02	.4013-02	.4585-02	2.915	20.72	566.0
100	00000	950000	815.00	.1218	.1002	.1148	.4231-02	.3481-02	.3986-02	2.539	20.75	563.2
100	00000	1000000	816.00	.1353	.1112	.1278	.4700-02	.3864-02	.4438-02	2.809	22.93	565.6
100	00000	1050000	817.00	.1533	.1259	.1451	.5325-02	.4374-02	.5040-02	3.166	25.81	568.6
100	00000	1100000	818.00	.1137	.9390-01	.1082	.3951-02	.3263-02	.3757-02	2.421	17.92	550.4
100	00000	1150000	819.00	.1088	.8990-01	.1035	.3779-02	.3127-02	.3594-02	2.325	17.23	547.9
100	00000	1200000	820.00	.1129	.9320-01	.1074	.3923-02	.3238-02	.3730-02	2.400	19.02	551.5
100	00000	1250000	821.00	.1009	.8330-01	.1035	.3505-02	.2894-02	.3333-02	2.145	17.96	551.3
100	00000	1300000	822.00	.5600-02	.4700-02	.5600-02	.2707-03	.2249-03	.2707-03	1.720	1.069	529.7
100	00000	1350000	823.00	.8700-02	.7200-02	.8700-02	.1960-03	.1626-03	.1960-03	1.240	1.149	532.8
100	00000	1400000	824.00	.1135	.9340-01	.1053	.3946-02	.3245-02	.3653-02	1.900	1.069	529.7
100	00000	1450000	825.00	.1045	.8580-01	.9680-01	.3628-02	.2980-02	.3353-02	2.157	16.95	568.8
100	00000	1500000	826.00	.7030-01	.5770-01	.6520-01	.2442-02	.2005-02	.2263-02	1.448	12.74	570.3
100	00000	1550000	827.00	.9300-01	.7630-01	.8610-01	.3230-02	.2650-02	.2992-02	1.907	13.96	572.8
100	00000	1600000	828.00	.1122	.9220-01	.1010	.3697-02	.3201-02	.3611-02	2.318	17.00	568.4
100	00000	1650000	829.00	.1241	.1020	.1166	.4309-02	.3544-02	.4048-02	2.580	20.32	564.6
100	00000	1700000	830.00	.2520	.2078	.2520	.8745-02	.7212-02	.8713-02	5.322	31.03	555.3
100	00000	1750000	831.00	.1683	.1389	.1683	.5839-02	.4820-02	.5839-02	3.571	22.64	552.2
100	00000	1800000	832.00	.1467	.1206	.1467	.5096-02	.4190-02	.5096-02	3.047	22.39	565.2
100	00000	1850000	833.00	.1714	.1409	.1714	.5955-02	.4896-02	.5955-02	3.558	26.14	565.7
100	00000	1900000	834.00	.1619	.1332	.1619	.5622-02	.4627-02	.5622-02	3.381	24.88	561.9
100	00000	1950000	835.00	.2324	.1921	.2324	.8066-02	.6665-02	.8066-02	4.963	27.58	548.6
100	00000	2000000	836.00	.1070-01	.8900-02	.1070-01	.3732-03	.3099-03	.3732-03	2.360	1.472	530.4
100	00000	2050000	837.00	.2695	.2222	.2695	.9352-02	.7709-02	.9352-02	5.675	35.89	557.0
100	00000	2100000	838.00	.1833	.1510	.1833	.6362-02	.5240-02	.6362-02	3.843	33.97	559.8

REPRODUCIBILITY OF THE  
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AEDC VKF V41B-57A (OH-498) COLLATION DICK  
OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(OTO) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TM DEG. R
100	30.000	.92500	970.00	.1422	.1172	.1422	.4939-02	.4939-02	2.997	22.12	556.3
100	30.000	.95000	974.00	.1762	.1450	.1762	.6120-02	.6120-02	3.674	27.03	562.9
100	30.000	.97500	979.00	.1067	.0840-01	.1067	.3707-02	.3707-02	2.309	17.18	540.3
101	31.500	.20000	108.00	.1269	.1047	.1269	.4405-02	.4405-02	2.675	26.92	556.6
100	32.000	.40000	831.00	.1340	.1103	.1243	.3832-02	.4317-02	2.806	19.38	560.2
100	32.000	.50000	832.00	.1104	.0970-01	.1023	.3833-02	.3554-02	2.280	16.18	568.6
100	32.000	.60000	833.00	.1007	.8270-01	.9330-01	.3499-02	.3240-02	2.070	13.79	571.3
100	32.000	.70000	834.00	.6850-01	.7250-01	.8190-01	.3072-02	.2815-02	1.803	13.63	576.4
100	32.000	.80000	835.00	.1048	.8610-01	.9710-01	.3541-02	.3374-02	2.160	15.32	570.0
100	32.000	.90000	836.00	.1218	.1002	.1145	.4231-02	.3976-02	2.541	18.69	562.8
100	32.000	.95000	837.00	.1440	.1186	.1360	.5002-02	.4725-02	3.014	22.96	560.7
100	32.000	.97500	838.00	.1512	.1244	.1432	.5251-02	.4973-02	3.149	24.81	563.4
100	32.000	1.01500	839.00	.1121	.9250-01	.1026	.3893-02	.3562-02	2.375	19.15	553.1
100	32.000	1.03000	840.00	.1134	.9370-01	.1038	.3938-02	.3606-02	2.421	18.88	548.6
100	32.000	1.04500	841.00	.1196	.9880-01	.1095	.4153-02	.3802-02	2.547	19.50	550.1
100	32.000	1.06000	842.00	.1219	.8420-01	.9330-01	.3533-02	.3240-02	2.183	17.99	546.3
101	35.000	.50000-01	115.00	.1236	.1023	.1236	.4288-02	.4288-02	2.658	16.92	543.9
101	35.000	.60000	110.00	.1358	.1118	.1358	.4713-02	.4713-02	2.844	28.56	560.5
101	35.000	.70000	112.00	.1070	.6660-01	.1070	.3714-02	.3714-02	2.304	14.67	543.6
101	40.000	.76000-01	121.00	.7140-01	.5910-01	.7140-01	.2476-02	.2476-02	1.545	9.852	540.0
101	40.000	.15000	111.00	.2090	.1721	.2090	.7252-02	.7252-02	4.378	32.25	560.2
101	40.000	.20000	112.00	.1253	.1032	.1253	.4349-02	.4349-02	2.623	28.97	560.8
101	42.500	.50000-01	127.00	.8330-01	.7350-01	.8330-01	.3099-02	.3099-02	1.926	13.02	542.3
101	45.000	.15000	117.00	.9040-01	.7480-01	.9040-01	.3138-02	.3138-02	1.950	11.45	542.2
101	45.000	.92500	969.00	.3210-01	.2670-01	.3210-01	.1116-02	.1116-02	7.060	5.280	530.5
100	45.000	.95000	973.00	.2200-02	.1800-02	.2200-02	.6302-04	.7582-04	4.800-01	.2520	526.8
100	45.000	.97500	978.00	.1500-02	.1300-02	.1500-02	.4381-04	.5269-04	3.400-01	.2520	526.8
101	51.000	.20000	118.00	.4740-01	.3920-01	.4740-01	.1644-02	.1644-02	1.028	6.559	535.7
101	60.000	.50000-01	131.00	.2210-01	.1840-01	.2210-01	.6369-03	.9656-03	6.050	4.515	536.6
101	67.500	.20000	128.00	.2750-01	.2310-01	.2750-01	.9229-05	.1110-04	7.000-02	.5300-01	526.8
100	75.000	.97500	977.00	.3000-03	.3000-03	.3000-03	.1628-04	.1958-04	1.200-01	.9300-01	526.1
100	65.000	.97500	976.00	.6000-03	.5000-03	.6000-03	.6396-03	.7708-03	4.860	3.771	533.7
101	105.00	.40100	135.00	.2870-01	.2390-01	.2870-01	.8254-03	.9953-03	6.250	5.000	533.6
101	105.00	.50100	136.00	.6800-02	.7300-02	.6800-02	.3046-03	.3046-03	1.920	1.537	533.5
101	105.00	.60100	137.00	.1500-02	.1200-02	.1500-02	.4300-04	.5181-04	3.300-01	.2620	531.9
101	105.00	.70100	139.00	.1800-02	.1500-02	.1800-02	.5073-04	.6107-04	3.900-01	.3110	529.8
101	113.00	.80100	145.00	.1780-01	.1470-01	.1780-01	.5113-03	.6164-03	3.880	3.105	534.3
101	115.00	.90100	147.00	.1500-02	.1200-02	.1500-02	.4341-04	.5232-03	3.300	2.639	533.8
101	116.00	.75100	148.00	.2500-02	.2500-02	.2500-02	.8501-04	.1036-03	6.600-01	.5270	530.1
101	120.00	.10000+00	132.00	.4900-02	.4100-02	.4900-02	.1705-03	.1705-03	1.080	.6520	532.8
101	120.00	.60000	247.00	.2100-02	.1800-02	.2100-02	.7378-04	.7378-04	4.700-01	.3890	528.3
101	120.00	.82900	248.00	.3500-02	.2930-02	.3500-02	.1199-03	.1199-03	7.600-01	.6320	528.2

(RV1806)

AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
101	120.00	.15200	249.00	.5100-02	.4200-02	.5100-02	.1754-03	.1458-03	.1754-03	.1120	.8210	527.0
101	130.00	.80500	253.00	.2100-02	.1800-02	.2100-02	.7346-04	.6104-04	.7346-04	.9000-01	.3750	528.0
101	130.00	.82900	254.00	.4100-02	.3400-02	.4100-02	.1415-03	.1176-03	.1415-03	.9000-01	.7010	527.6
101	130.00	.85200	255.00	.5200-02	.4300-02	.5200-02	.1768-03	.1457-03	.1768-03	.1140	.9450	527.1
101	135.00	.40100	142.00	.1400-02	.1200-02	.1400-02	.4967-04	.4127-04	.4967-04	.3200-01	.2460	528.5
101	135.00	.50100	143.00	.1400-02	.1200-02	.1400-02	.4966-04	.4151-04	.4966-04	.3200-01	.2630	528.8
101	135.00	.60100	144.00	.3400-02	.2800-02	.3400-02	.1171-03	.9726-04	.1171-03	.7400-01	.5780	529.7
101	135.00	.70100	145.00	.1700-02	.1400-02	.1700-02	.1440-03	.1196-03	.1440-03	.9100-01	.7330	529.3
101	140.00	.18000	85.000	.1700-02	.1400-02	.1700-02	.5797-04	.4812-04	.5797-04	.3700-01	.2830	532.0
101	140.00	.19000	87.000	.1000-01	.9300-02	.1000-01	.3483-03	.2832-03	.3483-03	.2200	1.702	531.9
101	145.00	.20000	223.00	.3100-02	.2600-02	.3100-02	.1073-03	.8921-04	.1073-03	.6800-01	.5320	527.6
102	145.00	.83500	262.00	.1150-01	.9900-02	.1150-01	.4173-03	.3447-03	.4173-03	.2670	2.031	518.5
102	145.00	.86200	261.00	.2500-02	.2000-02	.2500-02	.8546-04	.7118-04	.8546-04	.5500-01	.4580	520.2
101	150.00	.16000	86.000	.1650-01	.1370-01	.1650-01	.5748-03	.4770-03	.5748-03	.3620	2.706	533.4
101	150.00	.18000	84.000	.1650-01	.1370-01	.1650-01	.5709-03	.4738-03	.5709-03	.3600	2.692	532.6
101	150.00	.19000	82.000	.2000-03	.2000-03	.2000-03	.7877-05	.6338-05	.7877-05	.5000-02	3.700-01	532.5
101	155.00	.16000	80.000	.2260-01	.1870-01	.2260-01	.7833-03	.6499-03	.7833-03	.4930	3.683	533.9
101	155.00	.18000	83.000	.2000-03	.2000-03	.2000-03	.6822-05	.5652-05	.6822-05	.4000-02	3.3200-01	532.5
101	160.00	.18000	77.000	.1500-01	.1240-01	.1500-01	.5193-03	.4310-03	.5193-03	.3280	2.621	533.1
101	160.00	.19000	81.000	.5730-01	.4750-01	.5730-01	.1955-02	.1649-02	.1955-02	1.246	8.987	537.3
101	175.00	.16500	79.000	.2050-01	.1700-01	.2050-01	.7111-03	.5900-03	.7111-03	.4480	3.346	533.6
101	175.00	.17500	78.000	.3820-01	.3000-01	.3820-01	.1255-02	.1041-02	.1255-02	.7900	5.702	534.7
100	175.00	.19000-01	59.000	.1039	.8500-01	.1039	.3509-02	.2995-02	.3509-02	2.235	16.60	543.9
100	180.00	.25000-01	60.000	.2580-01	.2140-01	.2580-01	.8977-03	.7439-03	.8977-03	.5610	4.046	538.0
100	180.00	.50000-01	61.000	.1380-01	.1150-01	.1380-01	.4836-03	.3955-03	.4836-03	.3010	1.926	536.3
100	180.00	.75000-01	62.000	.1270-01	.1060-01	.1270-01	.4420-03	.3665-03	.4420-03	.2780	1.775	535.2
100	180.00	.10000-00	63.000	.2080-01	.1730-01	.2080-01	.7235-03	.6000-03	.7235-03	.4540	2.992	535.1
100	180.00	.12200	64.000	.2770-01	.2230-01	.2770-01	.9635-03	.7956-03	.9635-03	.6040	4.222	534.8
100	180.00	.15000	65.000	.3560-01	.2950-01	.3560-01	.1236-02	.1025-02	.1236-02	.7770	5.434	534.8
100	180.00	.16000	65.000	.9570-01	.7920-01	.9570-01	.3324-02	.2752-02	.3324-02	2.070	11.55	540.5
100	180.00	.17000	67.000	.1122	.9230-01	.1122	.3835-02	.3227-02	.3835-02	2.428	13.55	539.9
100	180.00	.18000	69.000	.1830-01	.1570-01	.1830-01	.6566-03	.5451-03	.6566-03	.4150	2.585	531.3
100	180.00	.20000	72.000	.4900-02	.4100-02	.4900-02	.1708-03	.1419-03	.1708-03	.1080	.9290	528.3
100	180.00	.50000	73.000	.5900-02	.4900-02	.5900-02	.2041-03	.1696-03	.2041-03	.1300	1.111	528.1
100	180.00	.60100	74.000	.5300-02	.4400-02	.5300-02	.1832-03	.1522-03	.1832-03	.1160	.9650	527.8
100	180.00	.70100	75.000	.4400-02	.3500-02	.4400-02	.1520-03	.1263-03	.1520-03	.9700-01	.7780	526.8

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AEDC VKF V41B-57A (OH-49B) COLLATION (ECC

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B06)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PC PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
79	7.990	2.477	40.07	.0000	180.0	543.8	.5600-01	1307.	94.90	2.509	3814.	.4964-04
80	7.990	2.469	40.06	.0000	180.0	545.8	.5600-01	1306.	94.90	2.519	3813.	.4985-04
81	7.990	2.456	40.11	.0000	180.0	545.9	.5600-01	1304.	94.70	2.519	3810.	.4994-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
79	.7642-07	.3894-01	0.0175
80	.7637-07	.3901-01	.2583-01
81	.7624-07	.3900-01	.2580-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(14H) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
79	.00000	.0000	1.0000	.5964	.4899	.5328	.2322-01	.1907-01	.2075-01	13.95	76.51	575.3
79	.00000	.0000-02	2.0000	.6997	.5523	.5623	.2686-01	.2190-01	.2190-01	15.49	104.9	599.4
79	.00000	.1000-01	3.0000	.6350	.5189	.5251	.2472-01	.2021-01	.2045-01	14.45	95.29	591.6
79	.00000	.2000-01	4.0000	.4351	.3583	.3725	.1694-01	.1395-01	.1451-01	10.32	56.84	568.8
79	.00000	.3000-01	5.0000	.3352	.2765	.2921	.1305-01	.1077-01	.1137-01	8.037	44.40	560.4
79	.00000	.4000-01	6.0000	.2623	.2332	.2489	.1093-01	.0882-02	.0964-02	6.820	37.76	555.7
79	.00000	.5000-01	7.0000	.2774	.2284	.2462	.1080-01	.0908-02	.0957-02	6.569	43.82	568.1
79	.00000	.6000-01	8.0000	.2807	.2313	.2509	.1093-01	.0908-02	.0969-02	6.696	42.20	563.5
79	.00000	.7000-01	9.0000	.2486	.2047	.2235	.0980-02	.0969-02	.0973-02	5.894	40.55	567.3
79	.00000	.8000-01	10.000	.2011	.1659	.1819	.0829-02	.0656-02	.0701-02	4.810	33.19	561.8
79	.00000	.9000-01	11.000	.1833	.1555	.1710	.0732-02	.0654-02	.0660-02	4.540	28.71	556.9
79	.00000	1.0000+00	12.000	.1784	.1473	.1626	.0647-02	.0536-02	.0633-02	4.301	25.73	557.0
79	.00000	.12000	14.000	.1657	.1370	.1519	.0454-02	.0536-02	.0516-02	4.028	22.34	552.0
79	.00000	.13000	15.000	.1566	.1294	.1437	.0699-02	.0503-02	.0537-02	3.784	22.06	555.7
79	.00000	.14000	16.000	.1450	.1198	.1332	.0645-02	.0464-02	.0518-02	3.509	22.22	554.6
79	.00000	.15000	18.000	.1494	.1233	.1375	.0516-02	.0403-02	.0535-02	3.601	22.14	557.0
79	.00000	.17000	19.000	.1491	.1231	.1374	.0806-02	.0492-02	.0550-02	3.586	22.66	558.4

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1806)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
79	.00000	.18000	20.000	.1475	.1217	.1360	.5743-02	.4740-02	.5297-02	3.544	22.39	559.1
79	.00000	.19000	21.000	.1455	.1202	.1344	.5666-02	.4680-02	.5234-02	3.513	22.22	556.2
79	.00000	.20000	22.000	.1422	.1174	.1315	.5537-02	.4570-02	.5120-02	3.419	21.60	558.6
79	.00000	.22500	23.000	.1321	.1091	.1225	.5145-02	.4249-02	.4771-02	3.186	20.15	556.9
79	.00000	.25000	801.00	.1310	.1081	.1216	.5099-02	.4210-02	.4736-02	3.155	19.95	557.4
79	.00000	.30000	802.00	.1223	.1009	.1136	.4763-02	.3931-02	.4422-02	2.941	18.58	558.7
79	.00000	.35000	803.00	.1290	.1063	.1197	.5023-02	.4140-02	.4661-02	3.077	19.39	563.5
79	.00000	.40000	804.00	.1227	.1011	.1139	.4778-02	.3937-02	.4433-02	2.921	18.94	564.7
79	.00000	.45000	805.00	.1121	.9230-01	.1039	.4363-02	.3593-02	.4048-02	2.659	17.75	566.6
79	.00000	.50000	806.00	.1011	.8320-01	.9370-01	.3935-02	.3238-02	.3650-02	2.391	16.44	568.6
79	.00000	.55000	807.00	.9520-01	.7910-01	.8920-01	.3747-02	.3080-02	.3474-02	2.261	16.56	572.6
79	.00000	.60000	808.00	.9330-01	.7640-01	.8620-01	.3621-02	.2974-02	.3356-02	2.176	15.91	575.2
79	.00000	.65000	809.00	.1046	.6530-01	.9690-01	.4074-02	.3343-02	.3774-02	2.435	17.78	578.4
79	.00000	.70000	810.00	.1130	.1065	.1203	.5061-02	.4146-02	.4685-02	2.997	22.57	583.9
79	.00000	.75000	811.00	.1178	.1406	.1590	.6689-02	.5474-02	.6190-02	3.939	28.63	587.2
79	.00000	.80000	812.00	.2032	.1711	.1935	.8147-02	.6662-02	.7536-02	4.776	34.66	589.9
79	.00000	.85000	813.00	.2236	.1828	.2092	.8707-02	.7118-02	.8144-02	5.096	38.24	590.9
79	.00000	.90000	814.00	.2347	.1921	.2201	.9137-02	.7479-02	.8570-02	5.386	37.89	586.6
79	.00000	.92500	815.00	.2116	.1734	.1991	.8240-02	.6754-02	.7753-02	4.891	39.59	582.5
79	.00000	.95000	816.00	.2223	.1820	.2097	.8658-02	.7087-02	.8165-02	5.103	41.22	586.7
79	.00000	.97500	817.00	.2461	.2011	.2326	.9584-02	.7832-02	.9058-02	5.601	45.13	591.7
79	.00000	1.0150	818.00	.1669	.1376	.1587	.6500-02	.5358-02	.6178-02	3.984	29.31	563.1
79	.00000	1.0300	819.00	.1621	.1337	.1541	.6313-02	.5208-02	.6002-02	3.888	28.63	560.3
79	.00000	1.0450	820.00	.1646	.1356	.1564	.6410-02	.5279-02	.6091-02	3.909	30.76	566.3
79	.00000	1.0600	821.00	.1459	.1202	.1387	.5583-02	.4679-02	.5400-02	3.464	28.79	566.6
79	.00000	.15000	89.000	.5300-02	.4400-02	.5300-02	.2063-03	.1714-03	.2063-03	.1330	.8030	533.5
79	.00000	.20000	91.000	.8300-02	.6900-02	.8300-02	.3242-03	.2696-03	.3342-03	.2090	1.302	531.4
79	.00000	.50000-01	90.000	.9400-02	.7600-02	.9400-02	.3647-03	.3031-03	.3647-03	.2350	1.421	532.7
79	.00000	.40000	823.00	.1124	.9240-01	.1042	.4375-02	.3598-02	.4057-02	2.645	20.76	571.5
79	.00000	.50000	824.00	.1047	.8600-01	.9700-01	.4076-02	.3347-02	.3777-02	2.447	19.16	575.8
79	.00000	.60000	825.00	.7350-01	.6030-01	.6810-01	.2862-02	.2349-02	.2651-02	1.711	14.99	578.2
79	.00000	.70000	826.00	.1134	.1142	.1291	.5429-02	.4446-02	.5025-02	3.207	23.33	585.4
79	.00000	.80000	827.00	.2113	.1728	.1955	.8227-02	.6730-02	.7611-02	4.832	35.09	588.8
79	.00000	.90000	828.00	.2129	.1743	.1997	.8269-02	.6785-02	.7775-02	4.891	38.11	586.0
80	.00000+00	.10000+00	103.00	.2534	.2033	.2534	.9885-02	.8164-02	.9885-02	6.125	35.70	555.7
80	.00000	.15000	104.00	.1685	.1393	.1685	.6572-02	.5433-02	.6572-02	4.093	25.94	552.7
79	.00000	.95000	971.00	.1577	.1295	.1577	.6139-02	.5042-02	.6139-02	3.685	26.93	575.8
79	.00000	.97500	975.00	.2016	.1653	.2016	.7849-02	.6438-02	.7849-02	4.678	34.12	580.1
79	.00000	.99000	980.00	.1933	.1588	.1933	.7528-02	.6182-02	.7528-02	4.520	33.04	575.7
80	.00000-01	.50000-01	105.00	.2334	.1932	.2334	.9106-02	.7537-02	.9106-02	5.714	31.77	547.8
79	.00000	.20000	93.000	.1230-01	.1020-01	.1230-01	.4780-03	.3974-03	.4780-03	.3080	1.916	532.2
80	.00000	.106.00	106.00	.2653	.2120	.2653	.1035-01	.8543-02	.1035-01	6.392	40.40	557.8
80	.25.500	.15000	107.00	.1796	.1481	.1796	.7007-02	.5776-02	.7007-02	4.301	37.99	561.6

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AEDC VKF V418-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V418-57A) ORBITER FUSELAGE

(RV1806)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO) BTU/ R FT2SEC	H1TO) BTU/ R FT2SEC	H1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
79	30.000	.92500	970.00	.1436	.1183	.1436	.5590-02	.4606-02	.5590-02	3.420	25.14	564.3
79	30.000	.95000	974.00	.1824	.1499	.1824	.7102-02	.5837-02	.7102-02	4.283	31.34	573.2
79	30.000	.97500	979.00	.1076	.8910-01	.1076	.4191-02	.3471-02	.4191-02	2.638	19.57	546.6
80	31.500	.20000	108.00	.1247	.1029	.1247	.4865-02	.4015-02	.4865-02	3.000	30.16	558.7
79	32.000	.40000	831.00	.1332	.1097	.1235	.5185-02	.4271-02	.4811-02	3.165	21.80	565.7
79	32.000	.50000	832.00	.1081	.8880-01	.1002	.4210-02	.3460-02	.3902-02	2.537	17.96	573.6
79	32.000	.60000	833.00	.1019	.8360-01	.9430-01	.3556-02	.3254-02	.3674-02	2.368	15.71	579.0
79	32.000	.70000	834.00	.1040	.8520-01	.9630-01	.4049-02	.3319-02	.3750-02	2.406	18.14	581.9
79	32.000	.80000	835.00	.1559	.1278	.1444	.6072-02	.4978-02	.5623-02	3.610	25.46	581.6
79	32.000	.90000	836.00	.2018	.1654	.1833	.7856-02	.6440-02	.7372-02	4.671	34.04	581.6
79	32.000	.95000	837.00	.2193	.1793	.2069	.8538-02	.7005-02	.8058-02	5.100	38.50	578.8
79	32.000	.97500	838.00	.2262	.1853	.2140	.8808-02	.7217-02	.8332-02	5.221	40.73	583.4
79	32.000	1.01500	839.00	.1716	.1412	.1568	.6884-02	.5497-02	.6106-02	4.044	32.32	571.0
79	32.000	1.03000	840.00	.1626	.1340	.1487	.6332-02	.5218-02	.5790-02	4.029	30.63	564.8
79	32.000	1.04500	841.00	.1693	.1395	.1548	.6591-02	.5430-02	.6026-02	3.877	30.01	563.8
79	32.000	1.05000	842.00	.1390	.1147	.1272	.5412-02	.4465-02	.4952-02	3.337	27.32	559.6
80	35.000	.50000-01	115.00	.1231	.1021	.1231	.4803-02	.3931-02	.4803-02	3.235	32.45	562.9
80	35.000	.20000	110.00	.1354	.1116	.1354	.5282-02	.4354-02	.5282-02	3.235	32.45	562.9
80	39.000	.10000+00	116.00	.1076	.8920-01	.1076	.4196-02	.3480-02	.4196-02	2.663	16.98	540.8
80	40.000	.78000-01	121.00	.7120-01	.5910-01	.7120-01	.2779-02	.2306-02	.2779-02	2.779	11.30	538.4
80	40.000	.15000	111.00	.2122	.1719	.2122	.8277-02	.6824-02	.8277-02	5.077	37.37	561.9
80	40.000	.20000	112.00	.1254	.1034	.1254	.4892-02	.4032-02	.4892-02	2.994	33.03	563.3
80	42.500	.50000-01	127.00	.8790-01	.7290-01	.8790-01	.3427-02	.2842-02	.3427-02	2.174	14.70	541.2
80	45.000	.15000	117.00	.9230-01	.7650-01	.9230-01	.3600-02	.2985-02	.3600-02	2.283	13.41	540.9
79	45.000	.92500	969.00	.3680-01	.3060-01	.3680-01	.1434-02	.1191-02	.1434-02	.9190	6.860	534.9
79	45.000	.95000	973.00	.2400-02	.2000-02	.2400-02	.9305-04	.7906-04	.9305-04	.6100-01	.4600	529.7
79	45.000	.97500	978.00	.1800-02	.1500-02	.1800-02	.6305-04	.5745-04	.6305-04	.4500-01	.3350	528.7
80	51.000	.20000	118.00	.4550-01	.3860-01	.4550-01	.1813-02	.1505-02	.1813-02	1.156	7.378	537.9
80	60.000	.50000-01	131.00	.2220-01	.1850-01	.2220-01	.8678-03	.7211-03	.8678-03	.5570	3.781	533.4
80	67.500	.20000	128.00	.2700-01	.2200-01	.2700-01	.1051-02	.8731-03	.1051-02	.6720	5.014	535.9
79	75.000	.97500	971.00	.5000-03	.4000-03	.5000-03	.1954-04	.1626-04	.1954-04	.1300-01	.9500-01	528.8
79	85.000	.97500	976.00	.7000-03	.6000-03	.7000-03	.2634-04	.2191-04	.2634-04	.1700-01	.1270	529.1
80	105.00	.40100	135.00	.2120-01	.1760-01	.2120-01	.8262-03	.6854-03	.8262-03	.5300	4.112	534.0
80	115.00	.50100	136.00	.3010-01	.2500-01	.3010-01	.1174-02	.9744-03	.1174-02	.7500	5.989	536.7
80	125.00	.60100	137.00	.9100-02	.7600-02	.9100-02	.3556-03	.2954-03	.3556-03	.2280	1.822	534.8
80	135.00	.70100	138.00	.2100-02	.1800-02	.2100-02	.8316-04	.6910-04	.8316-04	.5300-01	.4270	533.5
80	145.00	.80000	139.00	.1700-02	.1400-02	.1700-02	.6594-04	.5482-04	.6594-04	.4200-01	.3400	531.5
80	112.00	.60100	146.00	.2070-01	.1720-01	.2070-01	.8084-03	.6713-03	.8084-03	.5170	4.136	535.6
80	116.00	.60100	147.00	.1660-01	.1370-01	.1660-01	.6456-03	.5362-03	.6456-03	.4130	3.305	535.2
80	116.00	.75100	148.00	.3600-02	.3200-02	.3600-02	.1492-03	.1240-03	.1492-03	.9500-01	.7700	531.7
80	120.00	.90000+00	132.00	.4500-02	.3700-02	.4500-02	.1750-03	.1450-03	.1750-03	.6840	.6840	531.0
80	120.00	.95000	247.00	.2000-02	.2000-02	.2000-02	.9500-04	.7900-04	.9500-04	.6100-01	.5070	530.3
80	120.00	.97500	248.00	.4500-02	.3300-02	.4500-02	.1567-03	.1304-03	.1567-03	.1010	.8370	530.3

04-49B (AEDC V41B-57A) ORBITER FUSELAGE

RU# NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAM)	H(9T0) BTU/ R FT2SEC	H(1T0) BTU/ R FT2SEC	H(1TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHTD DEC. R /SEC	TH DEC. R
80	120.00	.86200	249.00	.5500-02	.4600-02	.5500-02	.2150-03	.1780-03	.2150-03	.1390	1.020	529.2
80	130.00	.80500	253.00	.2600-02	.2200-02	.2600-02	.1012-03	.8420-04	.1012-03	.6500-01	.5240	530.0
80	130.00	.62300	254.00	.4800-02	.4000-02	.4800-02	.1869-03	.1571-03	.1869-03	.1220	.9490	529.8
80	130.00	.66200	255.00	.5000-02	.5000-02	.6000-02	.2348-03	.1954-03	.2348-03	.1520	1.258	528.9
80	135.00	.40100	142.00	.1400-02	.1200-02	.1400-02	.5564-04	.4645-04	.5564-04	.3600-01	.2810	529.1
80	135.00	.50100	143.00	.1300-02	.1100-02	.1300-02	.5078-04	.4224-04	.5078-04	.3300-01	.2720	529.5
80	135.00	.60100	144.00	.3100-02	.2600-02	.3100-02	.1200-03	.5979-04	.1200-03	.7700-01	.6020	530.7
80	135.00	.70100	145.00	.4600-02	.3800-02	.4600-02	.1794-03	.1491-03	.1794-03	.1160	.9270	530.8
80	140.00	.19500	87.000	.5800-02	.8100-02	.5800-02	.3812-03	.3169-03	.3812-03	.2450	1.896	531.8
80	145.00	.60500	259.00	.4500-02	.3700-02	.4500-02	.1739-03	.1447-03	.1739-03	.1120	.8740	529.7
81	145.00	.82900	260.00	.5100-02	.4300-02	.5100-02	.1999-03	.1663-03	.1999-03	.1290	.9780	526.7
81	145.00	.86200	261.00	.2600-02	.2200-02	.2600-02	.1025-03	.8530-04	.1025-03	.6600-01	.5510	525.8
80	150.00	.15000	88.000	.1420-01	.1160-01	.1420-01	.5539-03	.4604-03	.5539-03	.3560	2.659	532.4
80	150.00	.15000	89.000	.1700-01	.1410-01	.1700-01	.6612-03	.5486-03	.6612-03	.4250	3.176	532.4
80	150.00	.15000	90.000	.2000-03	.2000-03	.2000-03	.8280-05	.6890-05	.8280-05	.5000-02	3.898	533.5
80	155.00	.16000	80.000	.2030-01	.1730-01	.2030-01	.8130-03	.6756-03	.8130-03	.5220	3.898	533.3
80	155.00	.18000	83.000	.1000-03	.1030-03	.1000-03	.3649-05	.3188-05	.3649-05	.2000-02	1.800-01	533.5
80	150.00	.18000	77.000	.1430-01	.1190-01	.1430-01	.5593-03	.4648-03	.5593-03	.3590	2.874	533.1
80	150.00	.15000	81.000	.5730-01	.4760-01	.5730-01	.2235-02	.1855-02	.2235-02	1.426	10.28	537.3
80	175.00	.16200	79.000	.2050-01	.1720-01	.2050-01	.8053-03	.6692-03	.8053-03	.5170	3.862	533.1
80	175.00	.17500	78.000	.3510-01	.3000-01	.3510-01	.1408-02	.1169-02	.1408-02	.9010	6.507	535.0
79	180.00	.10000-01	59.000	.1023	.8480-01	.1023	.3984-02	.3301-02	.3984-02	2.515	18.67	544.9
79	180.00	.25000-01	60.000	.2550-01	.2120-01	.2550-01	.9958-03	.8265-03	.9958-03	.6350	4.580	538.0
79	180.00	.50000-01	61.000	.1370-01	.1130-01	.1370-01	.5317-03	.4415-03	.5317-03	.3400	2.175	536.0
79	180.00	.75000-01	62.000	.1320-01	.1090-01	.1320-01	.5125-03	.4257-03	.5125-03	.3290	2.099	535.5
79	180.00	.10000-00	63.000	.2210-01	.1840-01	.2210-01	.8616-03	.7155-03	.8616-03	.5510	3.627	536.3
79	180.00	.12500	64.000	.2900-01	.2400-01	.2900-01	.1128-02	.9365-03	.1128-02	.7220	5.043	536.3
73	180.00	.15000	65.000	.3520-01	.3050-01	.3520-01	.1434-02	.1191-02	.1434-02	.5170	5.409	536.6
79	180.00	.16000	66.000	.5080-01	.7530-01	.5080-01	.3536-02	.2931-02	.3536-02	2.239	12.48	542.8
79	180.00	.17000	67.000	.1114	.9240-01	.1114	.4340-02	.3586-02	.4340-02	2.742	15.27	544.2
79	180.00	.20000	69.000	.1730-01	.1480-01	.1730-01	.6555-03	.5780-03	.6555-03	.4410	2.783	533.1
79	180.00	.40100	72.000	.4900-02	.4100-02	.4900-02	.1920-03	.1596-03	.1920-03	.1240	1.060	530.7
79	180.00	.50000	73.000	.6100-02	.5000-02	.6100-02	.2359-03	.1962-03	.2359-03	.1520	1.375	530.5
79	180.00	.60100	74.000	.5500-02	.4600-02	.5500-02	.2135-03	.1775-03	.2135-03	.1380	1.142	530.2
79	180.00	.70100	75.000	.4200-02	.3500-02	.4200-02	.1618-03	.1346-03	.1618-03	.1050	.8390	529.9

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1806)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPDRBK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
58	7.990	2.924	40.10	.0000	190.9	7000-01	1352.	98.20	3.118	3880.	.5960-04
59	7.990	2.951	40.13	.0000	180.0	7000-01	1345.	97.70	3.121	3869.	.5998-04
60	7.990	2.935	40.06	.0000	180.0	7000-01	1351.	98.10	3.124	3878.	.5979-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
58	7908-07	4367-01	0.0175
59	7864-07	4364-01	.2371-01
60	7897-07	4369-01	.2352-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(UTO) BTU/ R FT <sup>2</sup> SEC	H(UTO) BTU/ R FT <sup>2</sup> SEC	H(TAW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTMDT DEG. R /SEC	TW DEG. R
58	.0000	.0000	1.0000	.5905	.4862	.5234	.2578-01	.2123-01	.2307-01	16.25	88.61	586.8
58	.0000	.5000-02	2.0000	.6934	.5663	.5633	.3028-01	.2473-01	.2473-01	18.24	122.6	614.9
58	.0000	.1000-01	3.0000	.6247	.5115	.5175	.2728-01	.2234-01	.2260-01	16.67	109.1	606.0
58	.0000	.2000-01	4.0000	.4355	.3595	.3736	.1902-01	.1570-01	.1631-01	12.17	66.64	577.4
58	.0000	.3000-01	5.0000	.3350	.2771	.2924	.1463-01	.1210-01	.1277-01	9.466	52.04	569.9
58	.0000	.4000-01	6.0000	.3111	.2577	.2748	.1359-01	.1125-01	.1200-01	8.857	48.80	565.3
58	.0000	.5000-01	7.0000	.2745	.2265	.2439	.1198-01	.0989-02	.1065-01	7.648	50.74	578.9
58	.0000	.6000-01	8.0000	.2787	.2303	.2435	.1217-01	.1006-01	.1083-01	7.828	49.09	574.0
58	.0000	.7000-01	9.0000	.2428	.2004	.2136	.1060-01	.0751-02	.0934-02	6.771	46.33	578.6
58	.0000	.8000-01	10.000	.1955	.1617	.1771	.8542-02	.7061-02	.7735-02	5.507	37.79	572.5
58	.0000	.9000-01	11.000	.1824	.1559	.1713	.8225-02	.6809-02	.7480-02	5.348	33.65	567.0
58	.0000	.1000+00	12.000	.1747	.1445	.1535	.7630-02	.6316-02	.6953-02	4.959	29.51	567.2
58	.0000	.12000	14.000	.1726	.1430	.1534	.6246-02	.5615-02	.6230-02	4.933	27.22	562.5
58	.0000	.13000	15.000	.1553	.1286	.1427	.6782-02	.5615-02	.6230-02	4.413	25.58	565.5
58	.0000	.14000	16.000	.1435	.1188	.1320	.6266-02	.5189-02	.5764-02	4.084	25.72	565.3
58	.0000	.16000	18.000	.1504	.1244	.1336	.6566-02	.5433-02	.6050-02	4.257	26.01	568.9
58	.0000	.17000	19.000	.1486	.129	.1370	.6488-02	.5365-02	.5984-02	4.193	26.34	570.8

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

P/W NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(11A) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTMDT DEG. R /SEC	TW DEG. R
58	.00000	.18000	20.000	.1477	.1221	.1363	.6448-02	.5331-02	.5951-02	4.162	26.13	571.6
58	.00000	.19000	21.000	.1435	.1188	.1327	.6268-02	.5186-02	.5794-02	4.065	25.56	568.6
58	.00000	.20000	22.000	.1417	.1172	.1311	.6187-02	.5116-02	.5725-02	3.995	25.08	571.4
58	.00000	.21000	23.000	.1322	.1094	.1227	.5774-02	.4775-02	.5355-02	3.734	23.46	570.4
58	.00000	.22000	24.000	.1311	.1084	.1218	.5723-02	.4732-02	.5317-02	3.696	23.20	571.4
58	.00000	.23000	25.000	.1258	.1015	.1141	.5361-02	.4431-02	.4981-02	3.455	21.68	572.7
58	.00000	.24000	26.000	.1253	.1034	.1164	.5473-02	.4517-02	.5081-02	3.495	21.86	578.6
58	.00000	.25000	27.000	.1212	.9990-01	.1125	.5290-02	.4364-02	.4911-02	3.372	21.71	573.7
58	.00000	.26000	28.000	.1103	.9100-01	.1024	.4819-02	.3973-02	.4472-02	3.061	20.28	581.9
58	.00000	.27000	29.000	.1025	.8450-01	.9510-01	.4477-02	.3690-02	.4154-02	2.837	19.36	583.5
58	.00000	.28000	30.000	.9940-01	.8160-01	.9220-01	.4342-02	.3574-02	.4027-02	2.731	19.84	588.3
58	.00000	.29000	31.000	.1031	.8460-01	.9560-01	.4501-02	.3703-02	.4173-02	2.825	20.50	589.6
58	.00000	.30000	32.000	.1459	.1197	.1351	.6370-02	.5227-02	.5900-02	3.940	28.47	598.6
58	.00000	.31000	33.000	.2802	.2298	.2047	.9653-02	.7905-02	.8333-02	5.877	43.72	603.9
58	.00000	.32000	34.000	.3157	.2575	.2917	.1223-01	.9999-02	.1131-01	7.361	52.76	615.5
58	.00000	.33000	35.000	.3116	.2539	.2911	.1379-01	.1124-01	.1274-01	8.238	58.93	619.6
58	.00000	.34000	36.000	.2975	.2429	.2787	.1299-01	.1061-01	.1217-01	7.810	54.16	616.0
58	.00000	.35000	37.000	.2607	.2132	.2451	.1139-01	.9309-02	.1070-01	6.905	55.12	610.6
58	.00000	.36000	38.000	.2690	.2195	.2534	.1175-01	.9585-02	.1107-01	7.041	56.01	617.8
58	.00000	.37000	39.000	.2868	.2334	.2707	.1252-01	.1019-01	.1182-01	7.407	58.70	625.6
58	.00000	.38000	40.000	.1844	.1516	.1751	.8051-02	.6620-02	.7647-02	5.038	36.54	591.4
58	.00000	.39000	41.000	.1753	.1447	.1671	.7682-02	.6320-02	.7297-02	4.823	35.01	589.4
58	.00000	.40000	42.000	.1835	.1482	.1713	.7882-02	.6471-02	.7482-02	4.888	37.88	596.9
58	.00000	.41000	43.000	.1637	.1320	.1526	.7016-02	.5763-02	.6861-02	4.362	35.74	595.5
58	.00000	.42000	44.000	.5400-02	.4503-02	.5400-02	.2357-03	.1964-03	.2357-03	.1590	.9610	541.1
58	.00000	.43000	45.000	.8300-02	.6900-02	.8300-02	.3613-03	.3012-03	.3613-03	.2450	1.518	539.6
58	.00000	.44000	46.000	.1190-01	.9900-02	.1190-01	.5190-03	.4325-03	.5190-03	.3510	2.119	540.4
58	.00000	.45000	47.000	.1104	.9360-01	.1024	.4822-02	.3967-02	.4471-02	3.025	23.53	589.7
58	.00000	.46000	48.000	.1079	.8340-01	.9630-01	.4536-02	.3728-02	.4204-02	2.831	21.98	593.1
58	.00000	.47000	49.000	.7940-01	.6530-01	.7350-01	.3469-02	.2851-02	.3215-02	2.163	18.80	593.7
58	.00000	.48000	50.000	.2517	.2057	.2328	.1099-01	.8383-02	.1016-01	6.645	47.69	612.6
58	.00000	.49000	51.000	.3170	.2585	.2929	.1384-01	.1129-01	.1278-01	8.275	59.20	619.3
58	.00000	.50000	52.000	.2621	.2141	.2456	.1145-01	.9348-02	.1073-01	6.895	52.97	614.8
58	.00000	.51000	53.000	.2503	.2073	.2503	.1092-01	.9046-02	.1092-01	7.080	41.13	562.2
58	.00000	.52000	54.000	.1672	.1366	.1672	.7297-02	.6047-02	.7297-02	4.749	30.00	559.5
58	.00000	.53000	55.000	.1723	.1412	.1720	.7512-02	.6166-02	.7512-02	4.653	33.64	597.7
58	.00000	.54000	56.000	.2297	.1830	.2297	.1003-01	.8209-02	.1003-01	6.115	44.00	607.4
58	.00000	.55000	57.000	.2150	.1761	.2150	.9386-02	.7689-02	.9386-02	5.748	41.42	604.8
58	.00000	.56000	58.000	.2317	.1923	.2317	.1011-01	.8394-02	.1011-01	6.647	36.85	553.0
58	.00000	.57000	59.000	.1280-01	.1060-01	.1280-01	.5569-03	.4641-03	.5569-03	3.770	2.336	540.6
58	.00000	.58000	60.000	.2543	.2187	.2643	.1153-01	.9545-02	.1153-01	7.445	46.90	564.8
58	.00000	.59000	61.000	.1792	.1481	.1792	.7820-02	.6463-02	.7820-02	5.008	44.05	569.9





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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1806)

P/N NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
59	120.00	.86200	249.00	.5000-02	.4200-02	.5000-02	.2200-03	.1834-03	.2200-03	.1490	1.087	534.9
59	130.00	.80500	253.00	.3000-02	.2500-02	.3000-02	.1319-03	.1100-03	.1319-03	.8900-01	.7110	536.3
59	120.00	.82900	254.00	.5200-02	.4300-02	.5200-02	.2268-03	.1891-03	.2268-03	.1530	1.187	535.5
59	130.00	.86200	255.00	.6400-02	.5300-02	.6400-02	.2773-03	.2313-03	.2773-03	.1870	1.547	534.9
59	135.00	.40100	142.00	.1400-02	.1100-02	.1400-02	.6001-04	.5002-04	.6001-04	.4000-01	.3130	537.1
59	135.00	.50100	143.00	.1000-02	.8000-03	.1000-02	.4271-04	.3559-04	.4271-04	.2900-01	.2370	537.9
59	135.00	.60100	144.00	.3500-02	.3000-02	.3500-02	.1294-03	.1294-03	.1294-03	.1040	.8080	539.7
59	135.00	.70100	145.00	.5200-02	.4300-02	.5200-02	.1697-03	.1697-03	.1697-03	.1520	1.223	537.6
59	140.00	.12000	85.000	.1100-02	.1100-02	.1100-02	.5537-04	.4615-04	.5537-04	.3700-01	.2870	537.8
59	140.00	.19000	87.000	.6300-02	.7100-02	.6300-02	.3738-03	.3115-03	.3738-03	.2510	1.938	537.8
59	145.00	.62500	253.00	.4700-02	.3900-02	.4700-02	.1694-03	.1694-03	.1694-03	.1370	1.063	535.6
59	145.00	.62500	261.00	.2700-02	.2200-02	.2700-02	.1164-03	.0974-03	.1164-03	.7900-01	.6550	534.6
59	150.00	.16000	86.000	.1130-01	.9400-02	.1130-01	.4947-03	.4123-03	.4947-03	.3330	2.479	537.6
59	150.00	.16000	86.000	.1500-01	.1300-01	.1500-01	.7267-03	.6055-03	.7267-03	.4830	3.638	538.3
59	150.00	.19000	82.000	.3000-03	.3000-03	.3000-03	.1415-04	.1160-04	.1415-04	.1000-01	.7100-01	533.9
59	155.00	.16000	83.000	.1690-01	.1410-01	.1690-01	.7300-03	.6133-03	.7300-03	.4950	3.683	538.5
59	155.00	.18000	77.000	.2000-03	.2000-03	.2000-03	.9104-05	.8095-05	.9104-05	.7000-02	.4900-01	533.8
59	160.00	.18000	77.000	.1300-01	.1080-01	.1300-01	.5654-03	.4710-03	.5654-03	.3790	3.027	539.2
59	175.00	.15000	81.000	.5780-01	.4810-01	.5780-01	.2521-02	.2098-02	.2521-02	.1.681	12.08	543.5
59	175.00	.16500	79.000	.2110-01	.1750-01	.2110-01	.9190-03	.7656-03	.9190-03	.6170	4.593	539.1
59	175.00	.17500	78.000	.3590-01	.3080-01	.3590-01	.1612-02	.1342-02	.1612-02	.1.078	7.759	541.6
58	180.00	.16000-01	59.000	.1027	.6530-01	.1027	.4484-02	.3726-02	.4484-02	.2.984	22.08	551.6
58	180.00	.20000-01	60.000	.2520-01	.2100-01	.2520-01	.1101-02	.9172-03	.1101-02	.7410	5.329	544.0
58	180.00	.50000-01	61.000	.1240-01	.1040-01	.1240-01	.5434-03	.4527-03	.5434-03	.3670	2.337	542.2
58	180.00	.70000-01	62.000	.1380-01	.1150-01	.1380-01	.6025-03	.5019-03	.6025-03	.4070	2.590	542.4
58	180.00	.10300+00	63.000	.2370-01	.1970-01	.2370-01	.1033-02	.8605-03	.1033-02	.6960	4.562	543.5
58	180.00	.12500	64.000	.2940-01	.2440-01	.2940-01	.1058-02	.1058-02	.1058-02	.8630	6.004	544.4
58	180.00	.15000	65.000	.3530-01	.3070-01	.3530-01	.1610-02	.1341-02	.1610-02	.1.082	7.530	545.1
58	180.00	.16000	66.000	.9280-01	.7710-01	.9280-01	.4053-02	.3368-02	.4053-02	.2.694	14.94	552.5
58	180.00	.17000	67.000	.1160	.9540-01	.1160	.5065-02	.4209-02	.5065-02	.3.370	18.69	551.6
58	180.00	.20000	69.000	.1700-01	.1420-01	.1700-01	.7426-03	.6169-03	.7426-03	.5020	3.112	541.0
58	180.00	.40100	72.000	.5900-02	.4900-02	.5900-02	.2552-03	.2135-03	.2552-03	.1740	1.480	538.7
58	180.00	.50000	73.000	.7500-02	.6200-02	.7500-02	.3267-03	.2724-03	.3267-03	.2210	1.885	539.2
58	180.00	.60100	74.000	.6200-02	.5200-02	.6200-02	.2728-03	.2275-03	.2728-03	.1850	1.525	538.6
58	180.00	.70100	75.000	.4100-02	.3400-02	.4100-02	.1797-03	.1499-03	.1797-03	.1220	.9740	538.1

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B06)

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	FN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
40	8.000	3.332	40.06	.0000	180.0	760.6	.7800-01	1338.	97.00	3.490	3861.	.6739-04
41	8.000	3.313	40.10	.0000	180.0	759.9	.7900-01	1343.	97.30	3.487	3867.	.6712-04
42	8.000	3.334	40.11	.0000	180.0	759.7	.7800-01	1337.	96.90	3.486	3858.	.6740-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF ETU/R FT <sup>2</sup> -SEC	ST FR R =
40	.7809-07	.4611-01	.0175
41	.7833-07	.4612-01	.2232-01
42	.7799-07	.4608-01	.2227-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(9TO) BTU/R FT <sup>2</sup> -SEC	H(10) BTU/R FT <sup>2</sup> -SEC	H(11AH) BTU/R FT <sup>2</sup> -SEC	QDOT BTU/R FT <sup>2</sup> -SEC	DTMDT DEG. R /SEC	TH DEG. R
40	.00000	.50000-02	2.0000	.7029	.5726	.5726	.3241-01	.2641-01	.2641-01	19.08	128.2	613.9
40	.00000	.10000-01	3.0000	.6277	.5128	.5190	.2895-01	.2365-01	.2393-01	17.29	113.1	607.2
40	.00000	.30000-01	5.0000	.3397	.2806	.2963	.1567-01	.1294-01	.1366-01	9.951	54.72	569.4
40	.00000	.40000-01	6.0000	.2790	.2303	.2463	.1287-01	.1065-01	.1136-01	8.249	45.49	563.6
40	.00000	.50000-01	7.0000	.2785	.2294	.2473	.1284-01	.1058-01	.1140-01	8.039	53.34	578.6
40	.00000	.60000-01	8.0000	.2815	.2324	.2519	.1299-01	.1071-01	.1161-01	8.197	51.42	573.4
40	.00000	.70000-01	9.0000	.2434	.2005	.2169	.1122-01	.9247-02	.1010-01	7.029	48.10	578.3
40	.00000	.80000-01	10.0000	.1935	.1630	.1787	.9105-02	.7517-02	.8241-02	5.765	39.58	571.5
40	.00000	.90000-01	11.0000	.1895	.1559	.1714	.8634-02	.7169-02	.7903-02	5.555	34.97	565.7
40	.00000	1.0000-00	12.0000	.1763	.1457	.1628	.8128-02	.6720-02	.7415-02	5.190	30.90	560.1
40	.00000	.10000	14.0000	.1604	.1328	.1471	.7335-02	.6124-02	.6784-02	4.767	26.34	560.0
40	.00000	.10000	15.0000	.1563	.1284	.1426	.7162-02	.5923-02	.6577-02	4.582	26.58	564.9
40	.00000	.14000	16.0000	.1443	.1193	.1326	.6652-02	.5503-02	.6117-02	4.263	26.87	563.7
40	.00000	.16500	18.0000	.1519	.1255	.1398	.7000-02	.5785-02	.6447-02	4.461	27.29	567.3
40	.00000	.17000	19.0000	.1508	.1246	.1390	.6954-02	.5744-02	.6412-02	4.419	27.78	569.2
40	.00000	.18000	20.0000	.1520	.1255	.1403	.7012-02	.5790-02	.6469-02	4.447	27.93	570.4
40	.00000	.19000	21.0000	.1408	.1164	.1301	.6493-02	.5366-02	.6000-02	4.135	26.05	567.0





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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1806)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF P=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(1AW) BTU/ R F12SEC	COOT BTU/ F12SEC	DTWOT DEG. R /SEC	TH DEG. R
41	130.00	.82900	254.00	.5400-02	.4500-02	.5100-02	.2487-03	.2070-03	.2487-03	.1680	1.280	541.9
41	130.00	.86200	255.00	.6800-02	.5600-02	.6800-02	.3117-03	.2595-03	.3117-03	.2080	1.711	541.2
41	130.00	.95300	256.00	.4100-02	.3400-02	.4100-02	.903-03	.1866-03	.1903-03	.1280	1.168	536.2
41	130.00	.40100	142.00	.1300-02	.1100-02	.1300-02	.6023-04	.5013-04	.6023-04	.3100	.3100	543.0
41	130.00	.50100	143.00	.1100-02	.9000-03	.1100-02	.5198-04	.4255-04	.5198-04	.3500-01	.7350	543.3
41	130.00	.50100	144.00	.3100-02	.2550-02	.3100-02	.438-03	.1194-03	.1436-03	.9500-01	.7350	543.5
41	130.00	.70100	145.00	.5500-02	.4600-02	.5500-02	.2585-03	.2134-03	.2585-03	.1710	1.357	543.5
41	140.00	.15000	87.000	.7000-02	.6500-02	.7000-02	.3651-03	.3039-03	.3651-03	.2430	1.872	541.7
41	145.00	.85500	259.00	.5000-02	.4300-02	.5000-02	.2320-03	.1931-03	.2320-03	.1550	1.193	542.1
42	145.00	.82900	260.00	.1120-01	.9400-02	.1120-01	.5180-03	.4311-03	.5180-03	.3430	2.576	540.5
41	150.00	.66200	251.00	.2800-02	.2400-02	.2800-02	.2668-03	.1057-03	.2668-03	.8400-01	.6950	538.7
41	150.00	.15000	88.000	.1030-01	.8500-02	.1030-01	.731-03	.3338-03	.4731-03	.3160	2.347	541.2
41	150.00	.18000	89.000	.1200-01	.7300-01	.1200-01	.472-03	.6301-03	.7572-03	.5040	3.746	542.7
41	150.00	.18000	90.000	.3000-03	.2000-03	.3000-03	.432-03	.6165-03	.7432-03	.4830	3.678	542.5
41	150.00	.18000	91.000	.2000-03	.2000-03	.2000-03	.1270-04	.1933-04	.1270-04	.8000-02	.6300-01	539.5
41	150.00	.18000	92.000	.1310-01	.1310-01	.1310-01	.6053-03	.5035-03	.6053-03	.4020	3.803	543.5
41	150.00	.15000	81.000	.5550-01	.4750-01	.5550-01	.2622-02	.2178-02	.2622-02	1.730	12.41	548.3
41	150.00	.15000	82.000	.2210-01	.1840-01	.2210-01	.1021-02	.8436-03	.1021-02	.6790	5.041	543.7
41	150.00	.17500	78.000	.3600-01	.3000-01	.3600-01	.1662-02	.1332-02	.1662-02	1.101	7.908	545.7
40	150.00	.15000-01	93.000	.1016	.8430-01	.1016	.1687-02	.3330-02	.4687-02	3.061	22.64	551.6
40	150.00	.25000-01	60.000	.2460-01	.2070-01	.2460-01	.1145-02	.924-03	.1145-02	.7570	5.439	543.8
40	150.00	.50000-01	61.000	.1230-01	.1030-01	.1230-01	.5855-03	.4729-03	.5855-03	.3770	2.400	541.9
40	150.00	.75000-01	62.000	.1400-01	.1200-01	.1400-01	.6655-03	.5536-03	.6655-03	.4410	2.807	542.5
40	150.00	.10000-00	53.000	.2440-01	.2030-01	.2440-01	.1123-02	.943-03	.1123-02	.7420	4.866	543.7
40	150.00	.12500	64.000	.2900-01	.2490-01	.2900-01	.1320-02	.1147-02	.1320-02	.9100	6.332	545.1
40	150.00	.15000	65.000	.3510-01	.3000-01	.3510-01	.1666-02	.1395-02	.1666-02	1.037	7.633	546.0
40	150.00	.15000	66.000	.9590-01	.7900-01	.9590-01	.4416-02	.3662-02	.4416-02	2.872	15.91	554.7
40	150.00	.17000	67.000	.1110	.9200-01	.1110	.5117-02	.4243-02	.5117-02	3.325	18.42	554.2
40	150.00	.20000	68.000	.1680-01	.1400-01	.1680-01	.7763-03	.6455-03	.7763-03	.5130	3.172	544.2
40	150.00	.40100	72.000	.6200-02	.5200-02	.6200-02	.2869-03	.2386-03	.2869-03	.1900	1.609	543.9
40	150.00	.50000	73.000	.8500-02	.7000-02	.8500-02	.3907-03	.3248-03	.3907-03	.2530	2.188	544.4
40	150.00	.60100	74.000	.6500-02	.5400-02	.6500-02	.5019-03	.2510-03	.5019-03	.1990	1.634	545.0
40	150.00	.70100	75.000	.4900-02	.4000-02	.4900-02	.2243-03	.1865-03	.2243-03	.1480	1.179	543.9

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1806)

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
16	8.000	3.693	40.11	.0000	180.0	862.5	.8800-01	1359.	98.50	3.958	3890.	.7527-04
17	8.000	3.708	40.11	.0000	180.0	860.6	.8600-01	1353.	98.10	3.949	3882.	.7542-04
18	8.000	3.710	40.13	.0000	180.0	860.4	.8800-01	1353.	98.00	3.948	3881.	.7543-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
16	.7929-07	.4924-01	0.0175
17	.7895-07	.4915-01	.2111-01
18	.7892-07	.4914-01	.2108-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO1 BTU/ R FT2SEC	H1TO1 BTU/ R FT2SEC	H1TAH BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
15	.00000	.00000	1.0000	.5900	.4850	.5275	.2335-01	.2388-01	.2597-01	18.25	99.11	594.8
15	.00000	.50000-02	2.0000	.6972	.5694	.5694	.3433-01	.2804-01	.2804-01	20.79	139.6	617.4
16	.00000	.10000-01	3.0000	.6113	.5007	.5066	.3010-01	.2486-01	.2494-01	18.53	121.2	607.6
16	.00000	.20000-01	4.0000	.4336	.3632	.3774	.2165-01	.1788-01	.1858-01	13.98	76.58	577.3
16	.00000	.30000-01	5.0000	.3376	.2793	.2949	.1662-01	.1376-01	.1452-01	10.87	59.78	569.2
16	.00000	.40000-01	6.0000	.2718	.2255	.2403	.1332-01	.1110-01	.1183-01	8.845	48.81	562.3
16	.00000	.50000-01	7.0000	.2763	.2281	.2456	.1351-01	.1123-01	.1210-01	8.756	58.07	579.6
16	.00000	.60000-01	8.0000	.2789	.2306	.2497	.1373-01	.1135-01	.1229-01	8.615	55.91	573.9
16	.00000	.70000-01	9.0000	.2459	.2038	.2223	.1216-01	.1004-01	.1034-01	7.625	53.52	579.4
16	.00000	.80000-01	10.000	.1931	.1647	.1804	.8833-02	.8110-02	.8681-02	6.381	43.80	572.2
16	.00000	.90000-01	11.000	.1855	.1562	.1715	.9881-02	.7850-02	.8445-02	6.098	38.39	566.1
16	.00000	.10000-00	12.000	.1774	.1469	.1619	.8773-02	.7235-02	.7974-02	5.734	34.14	566.6
15	.00000	.12000	14.000	.1198	.9340-01	.1100	.5901-02	.4855-02	.5417-02	3.902	21.54	561.8
16	.00000	.13000	15.000	.1570	.1301	.1442	.7129-02	.6404-02	.7102-02	5.080	29.46	565.8
16	.00000	.14000	16.000	.1470	.1197	.1326	.7032-02	.5879-02	.6527-02	4.671	29.43	564.5
16	.00000	.15000	18.000	.1522	.1244	.1395	.7397-02	.6155-02	.6817-02	4.841	29.59	568.7
16	.00000	.16000	19.000	.1491	.1234	.1376	.7343-02	.6077-02	.6774-02	4.789	30.07	571.0





AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H19T0 BTU/ R FT2SEC	H1T0 BTU/ R FT2SEC	H1TAN BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
17	25.500	.15000	107.00	.1807	.1492	.1807	.8882-02	.7332-02	.8882-02	5.685	49.81	577.9
16	30.000	.19250	970.00	.1429	.1176	.1429	.7035-02	.5792-02	.7035-02	4.454	32.33	590.0
16	30.000	.19500	974.00	.2001	.1640	.2001	.9854-02	.8075-02	.9854-02	6.077	43.74	606.5
16	30.000	.19750	979.00	.1093	.0940-01	.1093	.5382-02	.4453-02	.5382-02	3.504	25.66	572.1
17	31.500	.20000	108.00	.1257	.1039	.1257	.6179-02	.5104-02	.6179-02	3.971	39.58	575.4
16	32.000	.40000	831.00	.1351	.1113	.1253	.6652-02	.5480-02	.6171-02	4.230	28.82	587.3
16	32.000	.50000	832.00	.1088	.8930-01	.1088	.5355-02	.4397-02	.4961-02	3.340	23.35	599.5
16	32.000	.60000	833.00	.1255	.1028	.1162	.6179-02	.5063-02	.5720-02	3.810	24.93	606.6
16	32.000	.70000	834.00	.1935	.1578	.1788	.9529-02	.7768-02	.8302-02	5.712	42.18	623.7
16	32.000	.80000	835.00	.2283	.2673	.3030	.1617-01	.1315-01	.1492-01	5.555	65.83	631.5
16	32.000	.90000	836.00	.2976	.2424	.2785	.1465-01	.1194-01	.1372-01	6.237	62.37	626.1
16	32.000	.95000	837.00	.2924	.2385	.2754	.1440-01	.1174-01	.1355-01	8.664	64.06	621.3
16	32.000	.97500	838.00	.2913	.2359	.2748	.1434-01	.1166-01	.1353-01	8.490	64.70	631.2
16	32.000	1.0150	839.00	.2213	.1808	.2015	.1090-01	.8904-02	.5922-02	6.168	51.74	615.8
16	32.000	1.0300	840.00	.2030	.1663	.1851	.5994-02	.8190-02	.9113-02	6.164	46.71	606.4
16	32.000	1.0450	841.00	.2007	.1645	.1830	.9882-02	.8100-02	.9012-02	6.108	45.51	605.1
16	32.000	1.0500	842.00	.1567	.1287	.1430	.7714-02	.6339-02	.7043-02	4.831	38.83	596.9
17	35.000	.50000-01	115.00	.1231	.1023	.1231	.6052-02	.5029-02	.6052-02	4.286	25.51	552.8
17	35.000	.20000	110.00	.1359	.1129	.1359	.6730-02	.5550-02	.6730-02	4.286	42.61	581.0
17	39.000	.10000+00	116.00	.1055	.8770-01	.1055	.5184-02	.4311-02	.5184-02	3.462	21.97	550.1
17	40.000	.76000-01	121.00	.7180-01	.5370-01	.7180-01	.3529-02	.2935-02	.3529-02	2.353	15.01	548.3
17	40.000	.15000	111.00	.2129	.1758	.2129	.1046-01	.8630-02	.1046-01	6.702	48.94	577.5
17	40.000	.20000	112.00	.1277	.1053	.1277	.6274-02	.5175-02	.6274-02	3.996	43.69	581.1
17	42.500	.50000-01	127.00	.8710-01	.7240-01	.8710-01	.4280-02	.3559-02	.4280-02	2.851	19.26	549.4
17	45.000	.15000	117.00	.9130-01	.7590-01	.9130-01	.4485-02	.3731-02	.4485-02	3.004	17.57	548.3
16	45.000	.32500	963.00	.3910-01	.3170-01	.3810-01	.1876-02	.1560-02	.1876-02	1.259	9.316	551.8
16	45.000	.95000	973.00	.3100-02	.2600-02	.3100-02	.1518-03	.1265-03	.1518-03	1.030	.7650	544.2
16	45.000	.97500	978.00	.2300-02	.1900-02	.2300-02	.1114-03	.9295-04	.1114-03	.7600-01	.5620	543.7
17	51.000	.20000	119.00	.4650-01	.3800-01	.4650-01	.2290-02	.1906-02	.2290-02	1.539	9.784	546.1
17	60.000	.50000-01	131.00	.2120-01	.1770-01	.2120-01	.8703-03	.8703-03	.1044-02	.7070	4.782	540.8
17	67.500	.20000	123.00	.2720-01	.2270-01	.2720-01	.1335-02	.1114-02	.1335-02	.9000	6.683	544.9
16	75.000	.97500	977.00	.4000-03	.3000-03	.4000-03	.1745-04	.1454-04	.1745-04	.1200-01	.8800-01	543.7
16	85.000	.97500	976.00	.1000-02	.8000-03	.1000-02	.4947-04	.4123-04	.4947-04	.3400-01	.2300	543.3
17	105.00	.50100	135.00	.2090-01	.1740-01	.2090-01	.1029-02	.8556-03	.1029-02	.6900	5.315	547.4
17	105.00	.60100	137.00	.2940-01	.2440-01	.2940-01	.1444-02	.1200-02	.1444-02	.5630	7.627	551.0
17	105.00	.70100	138.00	.1220-01	.1030-01	.1220-01	.6019-03	.5006-03	.6019-03	.4030	3.195	548.8
17	105.00	.80100	139.00	.2700-02	.2300-02	.2700-02	.1345-03	.1120-03	.1345-03	.9000-01	.7180	545.9
17	113.00	.60100	145.00	.2000-02	.2000-02	.2400-02	.1350-03	.1156-03	.1350-03	.7600-01	.6200	543.6
17	116.00	.60100	147.00	.3090-01	.2570-01	.3090-01	.1521-02	.1264-02	.1521-02	1.013	8.021	551.8
17	116.00	.60100	148.00	.2480-01	.2050-01	.2480-01	.1220-02	.1014-02	.1220-02	.8140	6.449	550.9
17	120.00	.75100	149.00	.1900-02	.1600-02	.1900-02	.9509-04	.7919-04	.9509-04	.6400-01	.5100	543.7
17	120.00	.80000+00	132.00	.4100-02	.3300-02	.4100-02	.2033-03	.1700-03	.2033-03	.1390	.8370	538.4
17	120.00	.80500	2-7.00	.2600-02	.2300-02	.2600-02	.1382-03	.1151-03	.1382-03	.9300-01	.7680	542.3

(RV1806)

## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PJN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FI2SEC	H(10) BTU/ R FI2SEC	H(11) BTU/ R FI2SEC	H(TAW) BTU/ R FI2SEC	ODOT BTU/ FI2SEC	DTWDT DEG. R /SEC	TH DEG. R
17	120.00	.82900	248.00	.4000-02	.3300-02	.4000-02	.1960-03	.1633-03	.1633-03	.1960-03	.1330	1.091	541.4
17	120.00	.86200	249.00	.5500-02	.4600-02	.5500-02	.2721-03	.2268-03	.2268-03	.2721-03	.1850	1.346	539.4
17	130.00	.80500	253.00	.2900-02	.2400-02	.2900-02	.1411-03	.1175-03	.1175-03	.1411-03	.9500-01	.7600	542.0
17	130.00	.82900	254.00	.6300-02	.5300-02	.6300-02	.3110-03	.2592-03	.2592-03	.3110-03	.2010	1.627	541.0
17	130.00	.86200	255.00	.6100-02	.5100-02	.6100-02	.2980-03	.2485-03	.2485-03	.2980-03	.2020	1.666	539.3
17	130.00	.96300	256.00	.3500-02	.2900-02	.3500-02	.1599-03	.1416-03	.1416-03	.1599-03	.1150	1.053	538.5
17	130.00	.40100	142.00	.1400-02	.1200-02	.1400-02	.6912-04	.5762-04	.5762-04	.6912-04	.4700-01	.3620	540.5
17	130.00	.50100	143.00	.1200-02	.1000-02	.1200-02	.6104-04	.5086-04	.5086-04	.6104-04	.4100-01	.3390	541.9
17	130.00	.60100	144.00	.4500-02	.4100-02	.4500-02	.2423-03	.2018-03	.2018-03	.2423-03	.1640	1.263	542.9
17	130.00	.18000	65.000	.6200-02	.5200-02	.6200-02	.2783-03	.2322-03	.2322-03	.2783-03	.1880	1.498	542.8
17	140.00	.15500	87.000	.8400-02	.7000-02	.8400-02	.4131-03	.3443-03	.3443-03	.4131-03	.2800	2.154	540.4
17	145.00	.82900	259.00	.4200-02	.3500-02	.4200-02	.2049-03	.1708-03	.1708-03	.2049-03	.1390	1.072	541.0
18	145.00	.86200	260.00	.5300-02	.4400-02	.5300-02	.2578-03	.2149-03	.2149-03	.2578-03	.1750	1.311	540.2
17	150.00	.82900	261.00	.2900-02	.2400-02	.2900-02	.1417-03	.1182-03	.1182-03	.1417-03	.9600-01	.7300	537.4
17	150.00	.86200	86.000	.1330-01	.1130-01	.1330-01	.5078-03	.4232-03	.4232-03	.5078-03	.3440	2.558	540.7
17	150.00	.18000	84.000	.5300-03	.4500-03	.5300-03	.5225-05	.4321-03	.4321-03	.5225-05	.5290	3.934	541.8
17	150.00	.15500	85.000	.1130-01	.1130-01	.1130-01	.6951-03	.5795-03	.5795-03	.6951-03	.4700	3.499	541.4
17	150.00	.18000	77.000	.1200-01	.1070-01	.1200-01	.6342-03	.5283-03	.5283-03	.6342-03	.4280	3.412	542.4
17	150.00	.15500	81.000	.5700-01	.4700-01	.5700-01	.2801-02	.2330-02	.2330-02	.2801-02	.1878	1.347	547.5
17	150.00	.15500	79.000	.2330-01	.1900-01	.2330-01	.1146-02	.9543-03	.9543-03	.1146-02	.7740	5.748	542.8
17	150.00	.17500	78.000	.2330-01	.1900-01	.2330-01	.1761-02	.1467-02	.1467-02	.1761-02	.1186	8.525	544.4
16	160.00	.15500-01	53.000	.1001	.8330-01	.1001	.4933-02	.4102-02	.4102-02	.4933-02	3.318	24.56	550.2
16	160.00	.15500-01	60.000	.2330-01	.1900-01	.2330-01	.1175-02	.9797-03	.9797-03	.1175-02	.8000	5.757	542.2
16	160.00	.15500-01	61.000	.1200-01	.1120-01	.1200-01	.6590-03	.5501-03	.5501-03	.6590-03	.4500	2.871	540.5
16	160.00	.15500-01	62.000	.1530-01	.1200-01	.1530-01	.7510-03	.6253-03	.6253-03	.7510-03	.5120	3.267	540.9
16	160.00	.15500-01	63.000	.2530-01	.2150-01	.2530-01	.1271-02	.1060-02	.1060-02	.1271-02	.8660	5.677	542.2
16	160.00	.15500-01	64.000	.2530-01	.2150-01	.2530-01	.1495-02	.1246-02	.1246-02	.1495-02	1.016	7.077	543.3
16	160.00	.15500-01	65.000	.3460-01	.2830-01	.3460-01	.1705-02	.1421-02	.1421-02	.1705-02	1.158	8.066	543.7
16	160.00	.15500-01	66.000	.3170-01	.2600-01	.3170-01	.4513-02	.3752-02	.3752-02	.4513-02	3.025	16.77	552.9
16	160.00	.15500-01	67.000	.1157	.9530-01	.1157	.5597-02	.4736-02	.4736-02	.5597-02	21.17	21.17	552.9
16	160.00	.15500-01	68.000	.1620-01	.1350-01	.1620-01	.7597-03	.6668-03	.6668-03	.7597-03	.5450	3.378	541.5
16	160.00	.15500-01	72.000	.6300-02	.5300-02	.6300-02	.3124-03	.2605-03	.2605-03	.3124-03	.2130	1.811	541.1
16	160.00	.15500-01	73.000	.6200-02	.5200-02	.6200-02	.4044-03	.3372-03	.3372-03	.4044-03	.2760	2.341	541.9
16	160.00	.15500-01	74.000	.6200-02	.5200-02	.6200-02	.3367-03	.2807-03	.2807-03	.3367-03	.2290	1.884	542.5
16	160.00	.15500-01	75.000	.5000-02	.4100-02	.5000-02	.2443-03	.2037-03	.2037-03	.2443-03	.1660	1.326	541.8

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1807)

## PARAMETRIC DATA

ALPHA = 40.0C BETA = -2.000 ELEVTR = .0000 SPDBRK = .0000  
 BOFLAP = .000C MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
184	7.900	.5375	40.09	2.000	158.0	109.5	1200-01	1269.	94.10	.5320	3756.	.1085-04
185	7.900	.5382	40.07	2.000	158.0	109.7	1200-01	1269.	94.20	.5330	3756.	.1086-04
186	7.900	.5356	40.09	2.000	158.0	109.2	1200-01	1270.	94.20	.5300	3757.	.1081-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	WREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
184	.7578-07	.1783-01	0.0175
185	.7580-07	.1785-01	.5522-01
186	.7582-07	.1781-01	.5531-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF 'TAN)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(1TO) BTU/ R FT <sup>2</sup> SEC	H(1TAW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTADT DEG. R /SEC	TM DEG. R
184	.00000	.00000	1.0000	.6132	.5052	.5489	.1093-01	.9007-02	.9786-02	6.486	35.04	548.9
184	.00000	.50000-02	2.0000	.7175	.5892	.5892	.1279-01	.1051-01	.1051-01	7.453	51.49	559.5
184	.00000	.10000-01	3.0000	.6957	.5728	.5794	.1242-01	.1021-01	.1033-01	7.288	48.92	555.4
184	.00000	.20000-01	4.0000	.4451	.3671	.3816	.7937-02	.6546-02	.6804-02	4.741	26.40	544.7
184	.00000	.30000-01	5.0000	.3413	.2817	.2975	.6085-02	.5023-02	.5304-02	3.653	20.37	541.9
184	.00000	.40000-01	6.0000	.2859	.2352	.2521	.5038-02	.4211-02	.4495-02	3.071	17.14	539.8
184	.00000	.50000-01	7.0000	.2817	.2323	.2504	.5133-02	.4142-02	.4462-02	2.998	20.22	545.3
184	.00000	.60000-01	8.0000	.2879	.2375	.2574	.5133-02	.4235-02	.4590-02	3.075	19.58	543.0
184	.00000	.70000-01	9.0000	.2535	.2332	.2272	.4521-02	.3713-02	.4051-02	2.690	18.72	544.5
184	.00000	.80000-01	10.000	.2019	.1666	.1827	.3600-02	.2970-02	.3257-02	2.155	15.00	543.6
184	.00000	.90000-01	11.000	.1945	.1606	.1765	.3463-02	.2863-02	.3149-02	2.083	13.27	541.4
184	.00000	1.0000+00	12.000	.1735	.1483	.1637	.3203-02	.2644-02	.2919-02	1.924	11.60	541.3
184	.00000	.12000	14.000	.1877	.1551	.1720	.3347-02	.2765-02	.3067-02	2.017	11.26	539.6
184	.00000	.13000	15.000	.1616	.1334	.1483	.2891-02	.2373-02	.2644-02	1.734	10.19	540.2
184	.00000	.14000	16.000	.1452	.1207	.1343	.2656-02	.2153-02	.2335-02	1.570	10.02	539.7
184	.00000	.16000	18.000	.1531	.1255	.1410	.2731-02	.2255-02	.2514-02	1.543	10.18	540.5
184	.00000	17000	19.000	.1514	.1250	.1396	.2700-02	.2229-02	.2488-02	1.622	10.34	541.2

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITTER FUSELAGE

(RV1807)

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
184	30.000	95000	974.00	1012	8350-01	1012	1804-02	1489-02	1804-02	1.082	8.041	542.4
184	30.000	97500	979.00	7880-01	6520-01	7980-01	1405-02	1163-02	1405-02	0.830	6.350	535.6
185	31.500	20000	108.00	1330	1039	1330	2374-02	1931-02	2374-02	1.431	14.53	539.4
184	32.000	40000	831.00	1422	1172	1319	2525-02	2030-02	2525-02	1.513	10.53	545.2
184	32.000	50000	832.00	1235	1017	1145	2501-02	1844-02	2042-02	1.306	9.356	548.7
184	32.000	60000	833.00	1073	8840-01	9350-01	1913-02	1576-02	1775-02	1.133	7.628	549.8
184	32.000	70000	834.00	8770-01	7220-01	8130-01	1553-02	1287-02	1450-02	0.920	7.077	550.8
184	32.000	80000	835.00	7760-01	6400-01	7200-01	1394-02	1141-02	1285-02	0.820	5.923	546.0
184	32.000	90000	835.00	7010-01	5780-01	6530-01	1249-02	1031-02	1175-02	0.745	5.565	542.6
184	32.000	95000	837.00	7730-01	6430-01	7370-01	1399-02	1147-02	1313-02	0.840	6.413	541.8
184	32.000	97500	839.00	7920-01	6480-01	7450-01	1412-02	1166-02	1338-02	0.840	6.758	541.4
184	32.000	1.0150	839.00	4830-01	4040-01	4480-01	6714-03	7205-03	7381-03	0.520	4.295	536.2
184	32.000	1.0300	840.00	5110-01	4230-01	4630-01	9115-03	7539-03	8349-03	0.530	4.343	535.3
184	32.000	1.0450	841.00	5780-01	4780-01	5290-01	1030-02	8517-03	9434-03	0.620	4.814	535.1
184	32.000	1.0600	842.00	4710-01	3900-01	4320-01	8407-03	6953-03	7700-03	0.510	4.228	535.3
184	32.000	1.0750	843.00	1184	1184	1429	2551-02	2113-02	2551-02	1.560	10.00	530.7
184	32.000	1.0900	844.00	1432	1163	1432	2556-02	2110-02	2556-02	1.536	15.57	541.6
184	32.000	1.1050	845.00	1212	1003	1212	2532-02	2191-02	2191-02	1.321	8.461	531.8
184	32.000	1.1200	846.00	8230-01	6820-01	8230-01	1459-02	1217-02	1459-02	0.920	5.785	528.5
184	32.000	1.1350	847.00	1830	1830	2290	4087-02	3374-02	4087-02	2.456	18.26	541.5
184	32.000	1.1500	848.00	1390	1139	1390	2462-02	2032-02	2462-02	1.476	16.45	543.0
184	32.000	1.1650	849.00	1039	8610-01	1039	1855-02	1336-02	1855-02	1.137	7.730	529.6
184	32.000	1.1800	850.00	1056	8740-01	1056	1885-02	1366-03	1885-02	1.149	6.778	532.5
184	32.000	1.1950	851.00	9200-02	7700-02	9200-02	1549-03	1111-04	1341-04	0.101	7.550	530.0
184	32.000	1.2100	852.00	6000-03	6000-03	8000-03	1869-04	1349-04	1869-04	0.800	6.200	528.4
184	32.000	1.2250	853.00	1000-02	9000-03	1000-02	1869-04	1349-04	1869-04	0.110	6.200	528.4
184	32.000	1.2400	854.00	5710-01	4730-01	5710-01	1019-02	8440-03	1019-02	0.620	3.994	530.8
184	32.000	1.2550	855.00	2770-01	2300-01	2770-01	4938-03	4938-03	4938-03	0.350	2.078	525.1
184	32.000	1.2700	856.00	3370-01	2790-01	3370-01	6014-03	4982-03	6014-03	0.368	2.757	529.6
184	32.000	1.2850	857.00	8000-03	7000-03	8000-03	1430-04	1185-04	1430-04	0.900	6.600	527.9
184	32.000	1.3000	858.00	1200-02	1000-02	1200-02	2101-04	1742-04	2101-04	0.130	9.700	527.6
184	32.000	1.3150	859.00	2790-01	2310-01	2790-01	4975-03	4120-03	4975-03	0.304	2.367	530.7
184	32.000	1.3300	860.00	2530-01	2140-01	2530-01	4623-03	3827-03	4623-03	0.280	2.260	532.2
184	32.000	1.3450	861.00	1340-01	1110-01	1340-01	3855-03	1975-03	3855-03	0.160	1.168	531.5
184	32.000	1.3600	862.00	4800-02	4800-02	5800-02	1030-03	8334-04	1030-03	0.140	1.507	529.3
184	32.000	1.3750	863.00	1200-02	1000-02	1200-02	2179-04	1807-04	2179-04	0.130	1.080	526.2
184	32.000	1.3900	864.00	1600-01	1600-01	1930-01	3441-03	2849-03	3441-03	0.210	1.686	531.3
184	32.000	1.4050	865.00	1350-01	1350-01	1630-01	2910-03	2409-03	2910-03	0.178	1.425	531.6
184	32.000	1.4200	866.00	3630-02	3000-02	3600-02	6406-04	5310-04	6406-04	0.170	1.370	527.3
184	32.000	1.4350	867.00	5100-02	4200-02	5100-02	1309-03	1085-03	1309-03	0.100	0.491	525.1
184	32.000	1.4500	868.00	7300-02	6100-02	7300-02	9127-04	7577-04	9127-04	0.570	4.720	521.7
184	32.000	1.4650	869.00	4200-02	4200-02	4200-02	1757-03	1458-03	1757-03	0.109	0.906	522.7
184	32.000	1.4800	870.00	1150-01	1150-01	1330-01	2476-03	2055-03	2476-03	0.153	1.129	523.4

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

ITEM NUMBER	THETA	X/L	C MC	H REF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(190) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
185	130.00	80500	253.00	5300-02	4900-02	5900-12	1047-03	8558-04	1047-03	6500-01	5240	521.6
185	130.00	82900	254.00	1300-01	1150-01	1350-01	2473-03	2035-03	2473-03	1530	1.200	521.9
185	130.00	88200	255.00	1590-01	1320-01	1590-01	2456-03	2561-03	2846-03	1760	1.465	521.7
185	135.00	142.00	142.00	2500-02	2100-02	2500-12	4510-04	3739-04	4510-04	2800-01	218	526.9
185	135.00	50100	143.00	3200-02	2700-02	3200-12	5715-04	3739-04	5715-04	3500-01	218	527.9
185	135.00	60100	144.00	3300-02	3200-02	3300-12	5935-04	5723-04	5935-04	4200-01	310	527.6
185	135.00	70100	145.00	3300-02	3200-02	3300-12	5935-04	5723-04	5935-04	3700-01	291	526.4
185	140.00	18000	65.000	1510-01	1200-01	1510-01	2701-03	2241-03	2701-03	1670	1.298	523.5
185	140.00	19000	67.000	7000-02	5900-02	7000-12	1254-03	1040-03	1254-03	7700-01	6000	525.5
185	145.00	80500	259.00	6000-02	4000-02	6000-12	6556-04	7055-04	8455-04	5300-01	4130	521.3
185	145.00	82900	261.00	3400-02	2600-02	3400-12	6030-04	5007-04	6030-04	3700-01	3120	521.3
185	150.00	16000	66.000	7100-02	6100-02	7100-12	1285-03	1033-03	1285-03	7300-01	5950	524.6
185	150.00	16000	66.000	7100-02	6100-02	7100-12	1285-03	1033-03	1285-03	6100-01	5110	524.7
185	155.00	16000	66.000	6000-02	5000-02	6000-12	1074-03	8905-04	1074-03	3000-02	2100-01	526.5
185	155.00	16000	66.000	6000-02	5000-02	6000-12	1074-03	8905-04	1074-03	6600-01	4570	524.8
185	160.00	16000	67.000	1230-01	1030-01	1230-01	2109-03	1644-03	2109-03	1350	1.090	525.1
185	175.00	15000	81.000	2700-01	1900-01	2700-01	4037-03	3365-03	4037-03	2520	1.824	526.9
185	175.00	15000	79.000	1400-01	1100-01	1400-01	2253-03	2122-03	2253-03	1580	1.185	523.7
185	175.00	15000	79.000	1400-01	1100-01	1400-01	2253-03	2122-03	2253-03	1680	1.222	526.1
185	180.00	17500	78.000	1500-01	1200-01	1500-01	2733-03	2257-03	2733-03	1237	9.223	526.5
185	180.00	17500	78.000	1500-01	1200-01	1500-01	2733-03	2257-03	2733-03	3450	2.504	527.7
185	180.00	17500	78.000	1500-01	1200-01	1500-01	2733-03	2257-03	2733-03	1650	1.054	531.3
185	180.00	17500	78.000	1500-01	1200-01	1500-01	2733-03	2257-03	2733-03	1130	1.054	531.3
185	180.00	17500	78.000	1500-01	1200-01	1500-01	2733-03	2257-03	2733-03	1240	7.210	530.2
185	180.00	17500	78.000	1500-01	1200-01	1500-01	2733-03	2257-03	2733-03	1640	8.160	529.7
185	180.00	17500	78.000	1500-01	1200-01	1500-01	2733-03	2257-03	2733-03	1640	1.149	529.3
185	180.00	17500	78.000	1500-01	1200-01	1500-01	2733-03	2257-03	2733-03	2320	1.630	529.3
185	180.00	17500	78.000	1500-01	1200-01	1500-01	2733-03	2257-03	2733-03	4460	2.501	531.0
185	180.00	17500	78.000	1500-01	1200-01	1500-01	2733-03	2257-03	2733-03	4820	2.703	529.8
185	180.00	17500	78.000	1500-01	1200-01	1500-01	2733-03	2257-03	2733-03	1470	9.160	528.9
185	180.00	17500	78.000	1500-01	1200-01	1500-01	2733-03	2257-03	2733-03	3500-01	2.990	527.9
185	180.00	17500	78.000	1500-01	1200-01	1500-01	2733-03	2257-03	2733-03	4100-01	3.530	527.9
185	180.00	17500	78.000	1500-01	1200-01	1500-01	2733-03	2257-03	2733-03	3200-01	2.630	527.6
185	180.00	17500	78.000	1500-01	1200-01	1500-01	2733-03	2257-03	2733-03	4600-01	3.670	526.8

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OH-498 (AEDC V41B-57A) OFB TER FUSELAGE

(RV1807)

FUSELAGE

PARAMETRIC DATA

ALPHA = 40.00 BETA = -2.000 ELEVTR = .0000 SPDBRK = .0000  
BOFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PC PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
157	7.940	1.035	40.08	2.000	159.0	211.1	.2300-01	1259.	92.50	1.002	3741.	.2059-04
158	7.940	1.025	40.08	2.000	158.0	209.2	.2200-01	1259.	92.50	.9930	3743.	.2040-04
159	7.940	1.018	40.09	2.000	158.0	207.5	.2200-01	1260.	92.60	.9870	3743.	.2027-04
RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	REF BTU/ R FT <sup>2</sup> SEC	ST FR R =									
157	.7446-07	2444-01	0.0175									
158	.7450-07	2434-01	.4003-01									
159	.7452-07	2426-01	.4036-01									

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(IGT) BTU/ R FT <sup>2</sup> SEC	H(IGT) BTU/ R FT <sup>2</sup> SEC	H(IGT) BTU/ R FT <sup>2</sup> SEC	QOOT BTU/ R FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TW DEG. R
157	.00000	.00000	1.0000	.6072	.497.	.5414	.1484-01	.1215-01	.1323-01	8.434	46.50	564.4
157	.00000	.50000-02	2.0000	.7130	.5809	.5809	.1743-01	.1420-01	.1420-01	9.644	65.96	579.4
157	.00000	.10000-01	3.0000	.4892	.4892	.4951	.1455-01	.1196-01	.1210-01	8.191	54.48	573.7
157	.00000	.20000-01	4.0000	.4394	.3603	.3749	.1074-01	.8808-02	.9165-02	6.161	34.06	559.1
157	.00000	.30000-01	5.0000	.3379	.2715	.2934	.8260-02	.6782-02	.7172-02	4.771	26.42	555.1
157	.00000	.40000-01	6.0000	.2814	.2313	.2473	.6879-02	.5653-02	.6044-02	3.993	22.15	552.2
157	.00000	.50000-01	7.0000	.2275	.2275	.2456	.6783-02	.5652-02	.6034-02	3.888	26.05	559.5
157	.00000	.60000-01	8.0000	.2231	.2317	.2517	.6302-02	.5654-02	.6152-02	3.976	25.15	556.6
157	.00000	.70000-01	9.0000	.2497	.2048	.2240	.6104-02	.5003-02	.5476-02	3.503	24.21	558.7
157	.00000	.80000-01	10.000	.2331	.1668	.1833	.4955-02	.4077-02	.4480-02	2.867	19.85	555.3
157	.00000	.90000-01	11.000	.1931	.1587	.1750	.4720-02	.3879-02	.4277-02	2.739	17.36	552.3
157	.00000	.10000-00	12.000	.1779	.1451	.1617	.4349-02	.3572-02	.3934-02	2.517	15.08	554.0
157	.00000	.12000	14.000	.1702	.1400	.1556	.4160-02	.3421-02	.3907-02	2.425	13.47	549.8
157	.00000	.13000	15.000	.1554	.1285	.1432	.3824-02	.3142-02	.3500-02	2.217	12.94	552.9
157	.00000	.14000	16.000	.1481	.1217	.1357	.3619-02	.2975-02	.3318-02	2.102	13.32	552.0
157	.00000	.15000	18.000	.1481	.1221	.1355	.3634-02	.2965-02	.3337-02	2.106	12.97	553.2
157	.00000	.17000	19.000	.1470	.1207	.1352	.3593-02	.2951-02	.3304-02	2.080	13.17	553.9

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OH-498 (A DC V-18-57A) OR31TER FUSELAGE

(RV1807)

THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	OTNOT DEG. R /SEC	TW DEG. R
00000	.18000	20.000	.1462	.1201	.1346	.3575-02	.2936-02	.3290-02	2.069	13.11	553.9
00000	.19000	21.000	.1476	.1213	.1361	.3609-02	.2956-02	.3326-02	2.096	13.29	551.8
00000	.20000	22.000	.1422	.1168	.1312	.3475-02	.2855-02	.3207-02	2.013	12.75	553.5
00000	.22500	23.000	.1341	.1102	.1241	.3278-02	.2694-02	.3033-02	1.902	12.06	552.3
00000	.25000	24.000	.1317	.1082	.1220	.3219-02	.2645-02	.2983-02	1.868	11.84	552.3
00000	.30000	25.000	.1230	.1010	.1140	.3006-02	.2470-02	.2785-02	1.743	11.05	552.8
00000	.35000	26.000	.1275	.1047	.1162	.3116-02	.2550-02	.2859-02	1.801	11.40	555.1
00000	.40000	27.000	.1214	.9970-01	.1125	.2968-02	.2437-02	.2750-02	1.714	11.17	555.2
00000	.45000	28.000	.1119	.9163-01	.1036	.2734-02	.2244-02	.2533-02	1.575	10.56	555.8
00000	.50000	29.000	.960-01	.6080-01	.9120-01	.2405-02	.1974-02	.2228-02	1.395	9.577	557.0
00000	.55000	30.000	.803-01	.740-01	.8350-01	.2206-02	.1809-02	.2043-02	1.285	9.327	559.0
00000	.60000	31.000	.633-01	.638-01	.7770-01	.2052-02	.1683-02	.1930-02	1.177	8.675	559.1
00000	.65000	32.000	.630-01	.6630-01	.7490-01	.1977-02	.1620-02	.1830-02	1.130	8.323	560.9
00000	.70000	33.000	.723-01	.6400-01	.7230-01	.1908-02	.1563-02	.1755-02	1.090	8.296	561.7
00000	.75000	34.000	.660-01	.600-01	.7960-01	.1855-02	.1524-02	.1744-02	1.136	8.294	562.1
00000	.80000	35.000	.820-01	.6230-01	.7130-01	.1658-02	.1229-02	.1409-02	1.202	8.830	560.8
00000	.85000	36.000	.613-01	.5030-01	.5770-01	.1498-02	.1189-02	.1368-02	1.067	7.612	558.4
00000	.90000	37.000	.533-01	.463-01	.550-01	.1450-02	.1132-02	.1307-02	.820	7.086	557.1
00000	.95000	38.000	.533-01	.463-01	.550-01	.1450-02	.1132-02	.1307-02	.830	6.829	557.9
00000	1.00000	39.000	.4270-01	.3610-01	.4060-01	.1045-02	.8569-03	.9324-03	.640	6.474	560.0
00000	1.01500	40.000	.4270-01	.3610-01	.4060-01	.1045-02	.8569-03	.9324-03	.6070	4.462	553.0
00000	1.04500	41.000	.380-01	.320-01	.3600-01	.7265-03	.5970-03	.6339-03	.4210	4.492	551.4
00000	1.06000	42.000	.380-01	.320-01	.3600-01	.7265-03	.5970-03	.6339-03	.4210	3.528	552.6
00000	1.08000	43.000	.380-01	.320-01	.3600-01	.7265-03	.5970-03	.6339-03	.4210	.3350	537.8
00000	1.10000	44.000	.6500-02	.530-02	.6500-02	.1584-03	.1433-03	.1735-03	.1040	.6430	535.9
00000	1.12000	45.000	.1197	.9730-01	.1099	.2901-02	.2378-02	.2685-02	1.559	13.09	560.8
00000	1.14000	46.000	.1055	.820-01	.9780-01	.251-02	.2116-02	.2391-02	1.474	11.62	562.0
00000	1.16000	47.000	.7120-01	.5930-01	.6530-01	.1740-02	.1425-02	.1610-02	.9940	8.777	561.5
00000	1.18000	48.000	.630-01	.510-01	.6030-01	.1621-02	.1380-02	.1564-02	1.211	8.914	561.8
00000	1.20000	49.000	.630-01	.510-01	.6030-01	.1621-02	.1380-02	.1564-02	1.211	8.417	560.6
00000	1.22000	50.000	.630-01	.510-01	.6030-01	.1621-02	.1380-02	.1564-02	1.211	7.360	558.1
00000	1.24000	51.000	.630-01	.510-01	.6030-01	.1621-02	.1380-02	.1564-02	1.211	21.52	550.8
00000	1.26000	52.000	.630-01	.510-01	.6030-01	.1621-02	.1380-02	.1564-02	1.211	15.58	550.5
00000	1.28000	53.000	.630-01	.510-01	.6030-01	.1621-02	.1380-02	.1564-02	1.211	13.96	566.5
00000	1.30000	54.000	.630-01	.510-01	.6030-01	.1621-02	.1380-02	.1564-02	1.211	15.47	564.9
00000	1.32000	55.000	.630-01	.510-01	.6030-01	.1621-02	.1380-02	.1564-02	1.211	15.17	563.0
00000	1.34000	56.000	.630-01	.510-01	.6030-01	.1621-02	.1380-02	.1564-02	1.211	19.84	546.5
00000	1.36000	57.000	.630-01	.510-01	.6030-01	.1621-02	.1380-02	.1564-02	1.211	19.84	536.8
00000	1.38000	58.000	.630-01	.510-01	.6030-01	.1621-02	.1380-02	.1564-02	1.211	24.53	552.5
00000	1.40000	59.000	.630-01	.510-01	.6030-01	.1621-02	.1380-02	.1564-02	1.211	23.87	554.3





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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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(RV1E07)

CH-498 (AEDC V41B-57A) ORBITER FUSELAGE

PUR- NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	OTMDT DEG. R /SEC	TW DEG. R
159	120.00	.86200	249.00	.1410-01	.1160-01	.1410-01	.3420-03	.2826-03	.3420-03	.2050	1.499	534.3
158	130.00	.80500	253.00	.2500-02	.2000-02	.2500-02	.5971-04	.4911-04	.5971-04	.3600-01	.2860	534.1
159	130.00	.82900	254.00	.1250-01	.1030-01	.1250-01	.3037-03	.2511-03	.3037-03	.1820	1.411	534.6
158	130.00	.86200	255.00	.2000-01	.1660-01	.2000-01	.4878-03	.4031-03	.4878-03	.2830	2.412	534.7
158	135.00	.40100	142.00	.1900-00	.1500-02	.1900-02	.4697-04	.3878-04	.4697-04	.2830-01	.2170	537.8
158	135.00	.50100	143.00	.1600-02	.1400-02	.1800-02	.4271-04	.3525-04	.4271-04	.2500-01	.3090	538.3
158	135.00	.60100	144.00	.3700-02	.3100-02	.3700-02	.9090-04	.7519-04	.9090-04	.4600-01	.4180	538.7
158	135.00	.70100	145.00	.4700-02	.3900-02	.4700-02	.6319-04	.5319-04	.6319-04	.5800-01	.3640	537.3
153	140.00	.19500	87.000	.2100-02	.1700-02	.2100-02	.4993-04	.4127-04	.4993-04	.5800-01	.5230	538.3
158	145.00	.80500	259.00	.2000-02	.1600-02	.2000-02	.5975-04	.4940-04	.5975-04	.3600-01	.2710	532.7
159	145.00	.82900	260.00	.2500-02	.2000-02	.2500-02	.7105-04	.5677-04	.7105-04	.4300-01	.3540	531.1
153	150.00	.15000	86.000	.6400-02	.5300-02	.6400-02	.1561-03	.1289-03	.1561-03	.9300-01	.6910	538.9
153	150.00	.18000	84.000	.8400-02	.7300-02	.8400-02	.2141-03	.1767-03	.2141-03	.1270	.9480	538.8
158	155.00	.19000	82.000	.2000-03	.1000-03	.2000-03	.3914-05	.3153-05	.3914-05	.2000-02	1.016	532.5
159	155.00	.19000	80.000	.9400-02	.7300-02	.9400-02	.2294-03	.1893-03	.2294-03	.1360	1.125	539.4
158	160.00	.18000	83.000	.5000-03	.4000-03	.5000-03	.1130-04	.9346-05	.1130-04	.7000-02	5.100-01	532.3
158	160.00	.18000	77.000	.9900-02	.8100-02	.9900-02	.2375-03	.1959-03	.2375-03	.1410	1.967	539.8
158	175.00	.15000	81.000	.3300-01	.2800-01	.3300-01	.8254-03	.6908-03	.8254-03	.4690	3.522	540.6
158	175.00	.16000	79.000	.1800-01	.1510-01	.1800-01	.4452-03	.3673-03	.4452-03	.2840	1.463	539.0
158	175.00	.17000	78.000	.1400-01	.1160-01	.1400-01	.3417-03	.2820-03	.3417-03	.2030	1.336	541.7
157	180.00	.10000-01	53.000	.8800-01	.8800-01	.1070	.2614-02	.2152-02	.2614-02	1.532	1.35	546.9
157	180.00	.25000-01	60.000	.2830-01	.2340-01	.2830-01	.6925-03	.5709-03	.6925-03	.4030	2.944	541.7
157	180.00	.50000-01	61.000	.1450-01	.1190-01	.1450-01	.3534-03	.2915-03	.3534-03	.2090	1.336	540.0
157	180.00	.75000-01	62.000	.1070-01	.8300-02	.1070-01	.2607-03	.2150-03	.2607-03	.1550	.9870	539.4
157	180.00	.10000+00	63.000	.1370-01	.1130-01	.1370-01	.3360-03	.2773-03	.3360-03	.2000	1.311	538.7
157	180.00	.12000	64.000	.2030-01	.1670-01	.2030-01	.4953-03	.4087-03	.4953-03	.3930	2.054	538.5
157	180.00	.15000	65.000	.2750-01	.2270-01	.2750-01	.5542-02	.4542-02	.5542-02	.3930	2.786	538.5
157	180.00	.17000	66.000	.6020-01	.4950-01	.6020-01	.1471-02	.1213-02	.1471-02	.8710	4.858	540.8
157	180.00	.17000	67.000	.5840-01	.4820-01	.5840-01	.1428-02	.1178-02	.1428-02	.8460	4.723	540.0
157	180.00	.20000	69.000	.1750-01	.1450-01	.1750-01	.4282-03	.3535-03	.4282-03	.2550	1.584	537.1
157	180.00	.40100	72.000	.4500-02	.3900-02	.4500-02	.1125-03	.9293-04	.1125-03	.6700-01	.5720	536.2
157	180.00	.50000	73.000	.3900-02	.3200-02	.3900-02	.9421-04	.7780-04	.9421-04	.5600-01	.4790	535.9
157	180.00	.60100	74.000	.5100-02	.4200-02	.5100-02	.1239-03	.1023-03	.1239-03	.7400-01	.6100	535.9
157	180.00	.70100	75.000	.3400-02	.2800-02	.3400-02	.8338-04	.6898-04	.8338-04	.5000-01	.3990	534.7

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AEDC VKT V41B-57A (04-49B) COLLATION DECK

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B07)

## PARAMETRIC DATA

ALPHA = 40.00 BETA = -2.000 ELEVTR = .0000 SPDRK = .0000  
 BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.5 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
103	7.980	2.042	40.02	2.000	158.0	439.6	4600-01	1293.	94.10	2.040	3794.	4079-04
104	7.980	1.996	40.08	2.000	158.0	429.3	4500-01	1292.	94.10	1.992	3793.	3986-04
105	7.980	2.003	40.04	2.000	158.0	431.8	4500-01	1292.	94.00	2.004	3792.	4010-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	ST R =	FP
103	.7579-07	0.0175	0.0175	
104	.7574-07	.2853-01	.2853-01	
105	.7572-07	.2895-01	.2877-01	

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(14N) BTU/ R FT2SEC	QOOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
103	.0000	.0000	1.0000	.5940	.4878	.5305	.2082-01	.1710-01	.1659-01	12.37	68.05	569.3
103	.0000	.5000-02	2.0000	.7001	.5712	.5712	.2454-01	.2032-01	.2032-01	14.05	95.55	591.1
103	.0000	.1000-01	3.0000	.6161	.5038	.5098	.2159-01	.1765-01	.1767-01	12.52	82.86	583.9
103	.0000	.2000-01	4.0000	.4392	.3615	.3760	.1539-01	.1267-01	.1318-01	9.254	51.06	562.6
103	.0000	.3000-01	5.0000	.3366	.2775	.2932	.1180-01	.9723-02	.1027-01	7.155	39.59	557.2
103	.0000	.4000-01	6.0000	.2762	.2279	.2434	.9679-02	.7988-02	.8531-02	5.914	32.79	552.8
103	.0000	.5000-01	7.0000	.2779	.2286	.2466	.9739-02	.8012-02	.8640-02	5.842	39.05	563.9
103	.0000	.6000-01	8.0000	.2810	.2314	.2511	.9848-02	.8110-02	.8793-02	5.945	37.54	560.1
103	.0000	.7000-01	9.0000	.2442	.2009	.2195	.8557-02	.7041-02	.7632-02	5.138	35.42	563.4
103	.0000	.8000-01	10.000	.1973	.1625	.1784	.5914-02	.5556-02	.6232-02	4.183	28.90	558.8
103	.0000	.9000-01	11.000	.1893	.1553	.1710	.6523-02	.5442-02	.5931-02	4.019	25.44	554.7
103	.0000	.1000-00	12.000	.1759	.1451	.1603	.6166-02	.5066-02	.5619-02	3.755	22.48	554.8
103	.0000	.12000	14.000	.1805	.1492	.1655	.6328-02	.5228-02	.5800-02	3.890	21.61	549.0
103	.0000	.13000	15.000	.1596	.1309	.1455	.5559-02	.4587-02	.5100-02	3.392	19.79	553.7
103	.0000	.14000	16.000	.1442	.1190	.1325	.5055-02	.4172-02	.4644-02	3.089	19.58	552.6
103	.0000	.15000	18.000	.1455	.1201	.1340	.5104-02	.4210-02	.4533-02	3.109	19.14	554.6
103	.0000	.17000	19.000	.1477	.1218	.1361	.5176-02	.4268-02	.4769-02	3.147	19.91	555.7





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AEDC VKF V41B-57A (OH-49B) COLLATION: DECK

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## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHOT DEG. R /SEC	TW DEG. R
104	120.00	.86200	249.00	.1680-01	.1390-01	.1680-01	.5801-03	.4821-03	.5801-03	.3680	2.706	527.9
104	130.00	.80500	253.00	.7400-02	.6200-02	.7400-02	.2580-03	.2143-03	.2580-03	.1640	1.315	528.2
104	130.00	.82900	254.00	.4100-01	.3410-01	.4100-01	.1421-02	.1179-02	.1421-02	.8970	6.968	531.9
104	130.00	.86200	255.00	.3050-01	.2540-01	.3060-01	.1059-02	.8796-03	.1059-02	.6700	5.553	530.0
104	135.00	.40100	142.00	.1600-02	.1300-02	.1600-02	.5549-04	.4610-04	.5549-04	.3500-01	.2740	528.2
104	135.00	.50100	143.00	.1800-02	.1500-02	.1800-02	.6274-04	.5213-04	.6274-04	.4000-01	.3300	528.6
104	135.00	.60100	144.00	.3200-02	.2600-02	.3200-02	.1104-03	.9174-04	.1104-03	.7000-01	.5450	529.5
104	135.00	.70100	145.00	.4700-02	.3900-02	.4700-02	.1642-03	.1354-03	.1642-03	.1040	.8350	529.4
104	140.00	.16000	85.000	.5300-02	.4400-02	.5300-02	.1839-03	.1527-03	.1839-03	.1160	.9010	529.6
104	140.00	.19500	87.000	.8100-02	.6800-02	.8100-02	.2821-03	.2342-03	.2821-03	.1780	1.381	530.3
104	145.00	.80500	259.00	.4500-02	.3800-02	.4500-02	.1554-03	.1300-03	.1554-03	.9900-01	.7750	527.3
105	145.00	.82300	260.00	.1200-01	.8300-02	.1000-01	.3483-03	.2854-03	.3483-03	.2210	1.673	527.5
105	145.00	.86200	261.00	.4000-02	.3300-02	.4000-02	.1385-03	.1152-03	.1385-03	.8800-01	.7330	525.8
104	150.00	.16000	86.000	.1040-01	.8600-02	.1040-01	.3508-03	.2995-03	.3508-03	.2280	1.703	531.6
104	150.00	.18000	87.000	.1190-01	.9900-02	.1190-01	.3420-03	.3120-03	.3420-03	.2600	1.945	531.3
104	155.00	.16000	88.000	.2000-03	.2000-03	.2000-03	.7586-05	.6378-05	.7586-05	.5000-02	.3600-01	532.7
104	155.00	.18000	89.000	.1500-01	.1290-01	.1500-01	.5366-03	.4470-03	.5366-03	.3400	2.539	532.0
104	160.00	.16000	83.000	.3000-03	.2000-03	.3000-03	.8744-05	.7256-05	.8744-05	.6000-02	.4100-01	532.8
104	160.00	.18000	77.000	.1320-01	.1090-01	.1320-01	.4562-03	.3787-03	.4562-03	.2880	2.305	531.8
104	175.00	.16000	81.000	.4510-01	.3740-01	.4510-01	.1560-02	.1294-02	.1560-02	.9790	7.062	535.7
104	175.00	.18000	79.000	.2160-01	.1810-01	.2160-01	.7539-03	.6256-03	.7539-03	.4750	3.547	533.0
104	175.00	.17500	78.000	.1600-01	.1330-01	.1600-01	.5541-03	.4599-03	.5541-03	.3500	2.529	531.8
103	180.00	.10000-01	59.000	.1021	.8450-01	.1021	.3579-02	.2952-02	.3579-02	2.222	16.51	542.9
103	180.00	.12000-01	60.000	.2710-01	.2240-01	.2710-01	.9481-03	.7861-03	.9481-03	.5950	4.290	536.6
103	180.00	.14000-01	61.000	.1320-01	.1090-01	.1320-01	.4624-03	.3835-03	.4624-03	.2910	1.862	534.3
103	180.00	.16000-01	62.000	.1210-01	.1000-01	.1210-01	.4234-03	.3514-03	.4234-03	.2670	1.710	532.9
103	180.00	.18000-01	63.000	.1920-01	.1590-01	.1920-01	.6717-03	.5575-03	.6717-03	.4240	2.794	532.6
103	180.00	.20000-01	64.000	.2720-01	.2260-01	.2720-01	.9528-03	.7908-03	.9528-03	.6010	4.212	532.5
103	180.00	.22000-01	65.000	.3480-01	.2890-01	.3480-01	.1219-02	.1012-02	.1219-02	.7700	5.392	532.4
103	180.00	.24000-01	66.000	.8550-01	.7090-01	.8550-01	.2997-02	.2484-02	.2997-02	1.877	10.49	537.3
103	180.00	.26000-01	67.000	.7870-01	.6530-01	.7870-01	.2759-02	.2363-02	.2759-02	1.735	9.708	534.9
103	180.00	.28000-01	68.000	.1800-01	.1500-01	.1800-01	.6325-03	.5254-03	.6325-03	.4010	2.502	529.3
103	180.00	.30000-01	69.000	.6300-02	.5200-02	.6300-02	.2205-03	.1832-03	.2205-03	.1400	1.202	527.5
103	180.00	.32000-01	70.000	.5500-02	.4600-02	.5500-02	.1920-03	.1595-03	.1920-03	.1220	1.047	527.5
103	180.00	.34000-01	71.000	.5300-02	.4400-02	.5300-02	.1863-03	.1548-03	.1863-03	.1190	.9850	526.8
103	180.00	.36000-01	72.000	.4400-02	.3700-02	.4400-02	.1546-03	.1286-03	.1546-03	.9900-01	.7940	525.4

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(RV1B07)

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = -2.000 ELEVTR = .0000 SPOBRK = .0000  
 SOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAH DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
19	8.000	3.727	40.08	2.000	158.0	862.2	.8800-01	1350.	97.90	3.957	3878.	.7572-04
20	8.000	3.720	40.13	2.000	158.0	861.5	.8800-01	1351.	97.90	3.953	3879.	.7560-04
21	8.000	3.727	40.12	2.100	158.0	862.4	.8800-01	1351.	97.90	3.958	3878.	.7573-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
19	.7879-07	.4918-01	.4918-01	0.0175
20	.7895-07	.4916-01	.4916-01	.2103-01
21	.7879-07	.4918-01	.4918-01	.2103-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(IGT) BTU/ R FT <sup>2</sup> SEC	H(IGT) BTU/ R FT <sup>2</sup> SEC	H(IGT) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTMDT DEG. R /SEC	TW DEG. R
19	.00000	.00000	1.0000	.5919	.4860	.5287	.2311-01	.2390-01	.2600-01	18.04	97.90	595.7
19	.00000	.50000-02	2.0000	.6957	.5670	.5670	.3421-01	.2788-01	.2788-01	20.37	136.5	620.1
19	.00000	.10000-01	3.0000	.6163	.5039	.5099	.3031-01	.2478-01	.2507-01	18.35	119.9	609.9
19	.00000	.20000-01	4.0000	.4401	.3632	.3775	.2164-01	.1786-01	.1857-01	13.81	75.62	577.5
19	.00000	.30000-01	5.0000	.3357	.2753	.2939	.1655-01	.1370-01	.1445-01	10.71	58.91	568.6
19	.00000	.40000-01	6.0000	.2711	.2247	.2396	.1233-01	.1105-01	.1178-01	8.720	48.14	561.4
19	.00000	.50000-01	7.0000	.2042	.2562	.2436	.1348-01	.1112-01	.1198-01	8.581	56.93	578.9
19	.00000	.60000-01	8.0000	.2002	.2315	.2508	.1378-01	.1139-01	.1233-01	8.850	55.51	573.2
19	.00000	.70000-01	9.0000	.1347	.2064	.2252	.1230-01	.1015-01	.1107-01	7.834	53.60	578.7
19	.00000	.80000-01	10.0000	.1877	.1651	.1809	.9819-02	.8119-02	.8894-02	6.331	43.49	570.7
19	.00000	.90000-01	11.0000	.1765	.1555	.1708	.9231-02	.7646-02	.8393-02	6.011	37.87	564.3
19	.00000	1.0000-00	12.0000	.1689	.1463	.1613	.8697-02	.7194-02	.7931-02	5.653	33.69	564.6
19	.00000	.10000	14.0000	.1560	.1393	.1542	.8259-02	.6850-02	.7582-02	5.421	29.97	559.1
19	.00000	.13000	15.0000	.1448	.1292	.1433	.7670-02	.6354-02	.7049-02	5.000	29.03	563.6
19	.00000	.14000	16.0000	.1519	.1200	.1333	.7121-02	.5901-02	.6553-02	4.652	29.34	562.1
19	.00000	.15000	18.0000	.1499	.1257	.1400	.7463-02	.6182-02	.6883-02	4.849	29.68	566.0
19	.00000	.17000	19.0000	.1499	.1240	.1383	.7369-02	.6097-02	.6799-02	4.769	29.99	568.3

(RV1807)

AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
19	.00000	.18000	20.000	.1484	.1227	.1370	.7295-02	.6035-02	.6736-02	4.715	29.63	569.2
19	.00000	.19000	21.000	.1443	.1194	.1334	.7095-02	.5874-02	.6561-02	4.610	29.02	565.7
19	.00000	.20000	22.000	.1436	.1188	.1329	.7062-02	.5841-02	.6536-02	4.563	28.68	569.3
19	.00000	.21000	23.000	.1340	.1109	.1243	.6590-02	.5453-02	.6115-02	4.267	26.84	567.8
19	.00000	.22000	24.000	.1334	.1078	.1212	.6411-02	.5303-02	.5958-02	4.143	26.04	569.1
19	.00000	.23000	25.000	.1231	.1018	.1144	.6054-02	.5005-02	.5625-02	3.902	24.50	570.9
19	.00000	.24000	26.000	.1270	.1048	.1180	.6248-02	.5155-02	.5801-02	3.881	24.91	578.2
19	.00000	.25000	27.000	.1247	.1028	.1158	.6132-02	.5058-02	.5692-02	3.898	25.09	579.7
19	.00000	.26000	28.000	.1103	.9140-01	.1029	.5452-02	.4493-02	.5059-02	3.447	22.82	583.3
19	.00000	.27000	29.000	.1050	.8730-01	.9830-01	.5213-02	.4292-02	.4836-02	3.278	22.35	586.4
19	.00000	.28000	30.000	.1023	.8700-01	.1139	.6042-02	.4954-02	.5600-02	3.258	22.35	593.4
19	.00000	.29000	31.000	.2033	.1705	.1927	.1024-01	.8393-02	.9478-02	6.235	44.89	606.6
19	.00000	.30000	32.000	.3495	.2841	.3225	.1719-01	.1397-01	.1586-01	10.08	71.75	629.1
19	.00000	.31000	33.000	.3597	.2919	.3317	.1759-01	.1436-01	.1631-01	10.29	75.63	633.7
19	.00000	.32000	34.000	.3534	.2948	.3350	.1787-01	.1450-01	.1647-01	10.38	73.68	634.7
19	.00000	.33000	35.000	.3637	.2950	.3353	.1789-01	.1451-01	.1649-01	10.37	73.60	635.7
19	.00000	.34000	36.000	.3449	.2796	.3216	.1656-01	.1375-01	.1582-01	9.817	72.05	636.5
19	.00000	.35000	37.000	.3256	.2646	.3046	.1601-01	.1301-01	.1498-01	9.386	64.67	629.2
19	.00000	.36000	38.000	.2851	.2322	.2677	.1402-01	.1142-01	.1316-01	8.313	65.98	622.4
19	.00000	.37000	39.000	.2872	.2334	.2703	.1413-01	.1148-01	.1329-01	8.277	65.47	629.5
19	.00000	.38000	40.000	.3028	.2455	.2855	.1459-01	.1207-01	.1404-01	8.615	67.50	636.8
19	.00000	.39000	41.000	.1990	.1634	.1890	.9788-02	.8035-02	.8592-02	6.059	43.84	596.4
19	.00000	.40000	42.000	.1977	.1542	.1782	.9230-02	.7585-02	.8165-02	5.748	41.66	592.7
19	.00000	.41000	43.000	.1936	.1587	.1837	.9521-02	.7804-02	.8375-02	5.842	45.16	601.9
19	.00000	.42000	44.000	.1855	.1366	.1581	.8194-02	.6719-02	.7277-02	5.041	41.21	600.2
19	.00000	.43000	45.000	.4000-02	.3300-02	.4000-02	.1950-03	.1635-03	.1960-03	.1330	.8050	535.8
19	.00000	.44000	46.000	.9000-02	.8100-02	.9700-02	.4786-03	.3931-03	.4786-03	.3240	2.015	537.4
19	.00000	.45000	47.000	.5000-02	.5000-02	.5900-02	.2921-03	.2475-03	.2921-03	.1980	1.198	537.0
19	.00000	.46000	48.000	.1120	.9210-01	.1039	.5510-02	.4510-02	.5107-02	3.432	26.65	592.5
19	.00000	.47000	49.000	.1082	.8830-01	.1002	.5322-02	.4326-02	.4933-02	3.282	25.41	598.8
19	.00000	.48000	50.000	.9820-01	.7890-01	.8910-01	.4733-02	.3880-02	.4382-02	2.906	25.17	601.4
19	.00000	.49000	51.000	.2752	.2242	.2541	.1353-01	.1102-01	.1250-01	8.026	57.34	622.3
19	.00000	.50000	52.000	.3573	.2638	.3294	.1757-01	.1425-01	.1620-01	10.19	72.33	635.5
19	.00000	.51000	53.000	.2871	.2334	.2687	.1412-01	.1148-01	.1321-01	8.284	63.20	628.8
19	.00000	.52000	54.000	.2826	.2139	.2472	.1291-01	.1052-01	.1216-01	7.651	65.56	623.0
20	.00000	.53000	55.000	.2826	.2111	.2626	.1291-01	.1057-01	.1231-01	8.333	48.20	570.8
20	.00000	.54000	56.000	.1738	.1439	.1738	.9547-02	.7075-02	.8577-02	5.554	34.96	566.4
19	.00000	.55000	57.000	.1594	.1541	.1884	.9263-02	.7577-02	.9553-02	5.621	40.42	608.6
19	.00000	.56000	58.000	.2512	.2045	.2512	.1235-01	.1006-01	.1235-01	7.354	52.31	622.5
19	.00000	.57000	59.000	.2400	.1957	.2400	.1180-01	.9823-02	.1180-01	7.045	50.42	618.4
20	.00000	.58000	60.000	.2512	.2083	.2512	.1235-01	.1024-01	.1235-01	8.087	44.64	561.6
19	.00000	.59000	61.000	.1350-01	.1130-01	.1350-01	.6668-03	.5559-03	.6668-03	.4510	2.802	538.4
20	.00000	.60000	62.000	.2225	.2333	.2825	.1389-01	.1147-01	.1389-01	8.904	55.80	575.1



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B07)

RUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAW)	H(GTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	ODTWT DEC. R /SEC	TH DEC. R
20	25.500	.15000	107.00	.1922	.1585	.1922	.9447-02	.7791-02	.9447-02	6.005	52.54	580.7
19	30.000	.92500	970.00	.1480	.1217	.1480	.7273-02	.5985-02	.7279-02	4.545	32.97	591.0
19	30.000	.95000	974.00	.2042	.1671	.2042	.1004-01	.8215-02	.1004-01	6.106	43.94	607.3
19	30.000	.97500	979.00	.1302	.1076	.1302	.6405-02	.5290-02	.6405-02	4.105	30.03	574.4
20	31.500	.20000	108.00	.1332	.1099	.1332	.6547-02	.5404-02	.6547-02	4.183	41.66	577.4
19	32.000	.40000	831.00	.1401	.1153	.1300	.6890-02	.5672-02	.6391-02	4.333	29.53	586.5
19	32.000	.60000	832.00	.1156	.1156	.1070	.5683-02	.4663-02	.5264-02	3.509	24.55	598.0
19	32.000	.70000	833.00	.1240	.1016	.1148	.6100-02	.4998-02	.5647-02	3.734	24.48	603.2
19	32.000	.80000	834.00	.1312	.1560	.1757	.9404-02	.7674-02	.6691-02	5.631	41.73	616.6
19	32.000	.90000	835.00	.2983	.2428	.2754	.1467-01	.1194-01	.1354-01	8.668	59.86	624.5
19	32.000	.95000	836.00	.2979	.2425	.2788	.1465-01	.1193-01	.1371-01	8.667	61.87	623.7
19	32.000	.95000	837.00	.2984	.2432	.2810	.1474-01	.1196-01	.1382-01	8.742	64.69	619.6
19	32.000	.97500	838.00	.2997	.2436	.2828	.1474-01	.1196-01	.1391-01	8.644	65.94	628.9
19	32.000	1.0150	839.00	.2284	.1965	.2079	.1123-01	.9172-02	.1022-01	6.761	52.92	613.3
19	32.000	1.0300	840.00	.2033	.1665	.1654	.9395-02	.8193-02	.9116-02	6.133	46.58	601.9
19	32.000	1.0450	841.00	.2084	.1708	.1900	.1025-01	.8338-02	.9345-02	6.286	46.91	602.0
19	32.000	1.0600	842.00	.1578	.1298	.1440	.7759-02	.6373-02	.7084-02	4.821	38.80	594.0
20	33.000	.50000-01	115.00	.1369	.1137	.1359	.6731-02	.5593-02	.6731-02	4.454	28.20	554.6
20	33.000	.75000-01	116.00	.1458	.1202	.1458	.7166-02	.5907-02	.7168-02	4.540	45.09	582.9
20	33.000	.90000-01	117.00	.1168	.9710-01	.1168	.5745-02	.4773-02	.5745-02	3.816	24.19	552.0
20	35.000	.20000	121.00	.7920-01	.6590-01	.7920-01	.3695-02	.3240-02	.3695-02	2.603	16.54	548.0
20	40.000	.15000	111.00	.2307	.1901	.2307	.1134-01	.9348-02	.1134-01	7.188	52.36	582.5
20	40.000	.20000	112.00	.1390	.1145	.1390	.6835-02	.5629-02	.6935-02	4.314	47.08	585.1
20	42.500	.50000-01	127.00	.9710-01	.8070-01	.9710-01	.4774-02	.3958-02	.4774-02	3.176	21.37	551.0
20	45.000	.15000	117.00	.1044	.8580-01	.1044	.5133-02	.4268-02	.5133-02	3.421	20.00	549.8
19	45.000	.92500	953.00	.4040-01	.3360-01	.4040-01	.1936-02	.1650-02	.1925-02	1.318	9.754	551.5
19	45.000	.95000	973.00	.3200-02	.2700-02	.3200-02	.1584-03	.1319-03	.1584-03	.1060	.7910	543.3
19	45.000	.97500	978.00	.2300-02	.1900-02	.2300-02	.1142-03	.9507-04	.1142-03	.7700-01	.5700	543.0
20	51.000	.20000	118.00	.5450-01	.4540-01	.5450-01	.2681-02	.2231-02	.2681-02	1.794	11.40	547.2
20	60.000	.50000-01	131.00	.2310-01	.1930-01	.2310-01	.1136-02	.9465-03	.1136-02	.7680	5.191	540.6
20	62.500	.20000	129.00	.3160-01	.2630-01	.3160-01	.1551-02	.1291-02	.1551-02	1.040	7.718	545.8
19	75.000	.97500	977.00	.5000-03	.4000-03	.5000-03	.2594-04	.2152-04	.2594-04	.1700-01	.1290	542.8
19	85.000	.97500	976.00	.1500-02	.1300-02	.1500-02	.7531-04	.6272-04	.7531-04	.5100-01	.3770	542.6
20	105.00	.40100	135.00	.2350-01	.1950-01	.2350-01	.1155-02	.9620-03	.1155-02	.7740	5.957	547.2
20	105.00	.50100	136.00	.3200-01	.2690-01	.3200-01	.1593-02	.1324-02	.1593-02	1.060	8.402	550.8
20	105.00	.60100	137.00	.4200-01	.3490-01	.4200-01	.2067-02	.1716-02	.2067-02	1.368	10.82	554.3
20	105.00	.70100	139.00	.8300-02	.7300-02	.8300-02	.4311-03	.3557-03	.4311-03	.2890	2.232	546.9
20	105.00	.80100	139.00	.2300-02	.1900-02	.2300-02	.1111-03	.9253-04	.1111-03	.7500-01	.5950	543.0
20	105.00	.90100	140.00	.6860-01	.5690-01	.6860-01	.3371-02	.2799-02	.3371-02	2.192	17.60	555.3
20	116.00	.50100	147.00	.6740-01	.5590-01	.6740-01	.3314-02	.2750-02	.3314-02	2.228	17.21	558.1
20	116.00	.75100	148.00	.6500-02	.5700-02	.6500-02	.3358-03	.2794-03	.3358-03	.2250	1.787	546.2
20	120.00	.10000-02	132.00	.5000-02	.4200-02	.5000-02	.2478-03	.2066-03	.2478-03	.1680	1.015	538.0
20	120.00	.80500	127.00	.9800-02	.8200-02	.9800-02	.4827-03	.4021-03	.4827-03	.3250	2.673	542.6

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	OTDWT DEG. R /SEC	TW DEG. R
20	120.00	.82900	2+9.00	.2530-01	.2100-01	.2530-01	.1242-02	.1034-02	.1242-02	.8340	6.848	544.6
20	120.00	.86200	2+9.00	.2450-01	.2040-01	.2450-01	.1203-02	.1002-02	.1203-02	.8110	5.906	541.9
20	130.00	.86500	253.00	.1490-01	.12-0-01	.1490-01	.7338-03	.6114-03	.7338-03	.4930	3.924	544.1
20	130.00	.86500	253.00	.3700-01	.3090-01	.3700-01	.1819-02	.1514-02	.1819-02	.1220	9.407	545.4
20	130.00	.86300	255.00	.3710-01	.3090-01	.3710-01	.1822-02	.1517-02	.1822-02	.1225	10.06	544.0
20	130.00	.86300	255.00	.5400-02	.4500-02	.5400-02	.2632-03	.2195-03	.2632-03	.1790	1.639	535.0
20	135.00	.86300	1+2.00	.1500-02	.1200-02	.1500-02	.7338-04	.6114-04	.7338-04	.3930	539.4	539.4
20	135.00	.50100	1+3.00	.1500-02	.1200-02	.1500-02	.9222-04	.7734-04	.9222-04	.5160	541.0	541.0
20	135.00	.60100	1+4.00	.4500-02	.3800-02	.4500-02	.2218-03	.1847-03	.2218-03	.1500	1.155	542.6
20	135.00	.72100	1+5.00	.6700-02	.5600-02	.6700-02	.3225-03	.2737-03	.3225-03	.2210	1.762	539.4
20	140.00	.18200	85.000	.1120-01	.9300-02	.1120-01	.5455-03	.4591-03	.5455-03	.3720	2.884	539.4
20	140.00	.19300	81.000	.6800-02	.5600-02	.6800-02	.3225-03	.2737-03	.3225-03	.2250	1.735	539.4
20	145.00	.82300	256.00	.4700-02	.3900-02	.4700-02	.4065-03	.3387-03	.4065-03	.2740	2.121	541.2
21	145.00	.82300	256.00	.2900-02	.2400-02	.2900-02	.1423-03	.1187-03	.1423-03	.1560	1.175	539.1
21	145.00	.82300	256.00	.9000-02	.6600-02	.9000-02	.3315-03	.2654-03	.3315-03	.2650	1.973	535.6
20	150.00	.85000	84.000	.1250-01	.8800-02	.1250-01	.5168-03	.4307-03	.5168-03	.3500	2.602	539.7
20	150.00	.15000	82.000	.4000-03	.3000-03	.4000-03	.1725-04	.1440-04	.1725-04	.1200-01	6700-01	535.8
20	150.00	.15000	82.000	.1090-01	.9100-02	.1090-01	.5339-03	.4450-03	.5339-03	.3610	2.689	539.5
20	160.00	.18200	77.000	.1760-01	.1450-01	.1760-01	.8632-03	.7192-03	.8632-03	.5830	4.644	541.2
20	175.00	.15000	81.000	.5040-01	.4200-01	.5040-01	.2053-02	.1663-02	.2053-02	1.154	545.3	545.3
20	175.00	.15000	81.000	.2470-01	.2050-01	.2470-01	.1010-02	.0670-02	.1010-02	1.160	6.067	542.8
20	175.00	.17500	79.000	.1710-01	.1430-01	.1710-01	.8410-03	.7007-03	.8410-03	4.083	541.6	541.6
19	180.00	.15000-01	59.000	.950-0-01	.8270-01	.950-0-01	.4890-02	.4067-02	.4890-02	3.261	24.16	548.5
19	180.00	.25000-01	60.000	.2-90-01	.2070-01	.2-90-01	.1220-02	.1017-02	.1220-02	8.240	5.937	539.7
19	180.00	.50000-01	61.000	.1230-01	.1070-01	.1230-01	.6331-03	.5279-03	.6331-03	2.740	3.033	537.8
19	180.00	.75000-01	62.000	.1430-01	.1190-01	.1430-01	.7009-03	.5844-03	.7009-03	.4750	3.033	537.8
19	180.00	.10000+00	63.000	.2390-01	.2000-01	.2390-01	.1177-02	.9811-03	.1177-02	.7960	5.230	539.0
19	180.00	.12500	64.000	.2470-01	.2480-01	.2470-01	.1462-02	.1218-02	.1462-02	.9860	6.878	540.7
19	180.00	.15000	65.000	.330-0-01	.2810-01	.330-0-01	.1657-02	.1390-02	.1657-02	7.776	16.81	551.1
19	180.00	.16000	66.000	.9270-01	.7710-01	.9270-01	.4560-02	.3793-02	.4560-02	3.029	16.42	549.9
19	180.00	.17000	67.000	.9040-01	.7510-01	.9040-01	.4443-02	.3694-02	.4443-02	2.957	16.42	549.9
19	180.00	.20000	69.000	.1640-01	.1370-01	.1640-01	.8067-03	.6724-03	.8067-03	5.460	3.364	539.2
19	180.00	.40100	72.000	.9100-02	.7600-02	.9100-02	.4457-03	.3714-03	.4457-03	.3010	2.561	539.8
19	180.00	.50000	73.000	.7500-02	.6300-02	.7500-02	.3708-03	.3090-03	.3708-03	.2500	2.129	540.4
19	180.00	.60100	74.000	.7000-02	.5800-02	.7000-02	.3448-03	.2872-03	.3448-03	.2320	1.910	541.6
19	180.00	.70100	75.000	.4900-02	.4100-02	.4900-02	.2415-03	.2012-03	.2415-03	.1630	1.298	540.8

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKI V41B-57A (OH-49B) COLLATION DECK

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(RV1808)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

FUSELAGE

PARAMETRIC DATA

ALPHA = 45.30 BETA = .0030 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0030 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	$\rho$ PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
187	7.900	.5173	45.08	.0000	180.0	105.3	.1200-01	1269.	94.10	.5110	3755.	.1043-04
188	7.900	.5330	45.08	.0000	180.0	108.8	.1200-01	1271.	94.30	.5280	3758.	.1076-04
189	7.900	.5501	45.11	.0000	180.0	114.4	.1300-01	1271.	94.30	.5550	3759.	.1131-04

RUN NUMBER	MU	LB-SEC	HREF BTU/ R FT2SEC	ST FR R =
187	.512	7577-07	.1748-01	3.0175
188	7568-07	.1778-01	.5544-01	
189	7591-07	.1823-01	.5408-01	

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(10) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
187	.0000	.0000	1.0000	.5216	.4308	.4768	.9121-02	.7532-02	.8337-02	5.486	30.61	540.5	
187	.0000	.5000-02	2.0000	.6915	.5695	.5703	.1209-01	.9957-02	.9971-02	7.157	49.67	550.1	
187	.0000	.1000-01	3.0000	.6059	.4933	.5018	.1059-01	.8731-02	.8773-02	6.297	42.43	547.6	
187	.0000	.2000-01	4.0000	.4570	.3775	.3873	.7991-02	.6600-02	.6773-02	4.814	26.87	539.5	
187	.0000	.3000-01	5.0000	.3516	.2989	.3108	.6322-02	.5226-02	.5434-02	3.822	21.36	537.4	
187	.0000	.4000-01	6.0000	.2959	.2455	.2577	.5190-02	.4292-02	.4506-02	3.147	17.60	535.7	
187	.0000	.5000-01	7.0000	.3033	.2504	.2651	.5304-02	.4379-02	.4634-02	3.186	21.54	541.4	
187	.0000	.6000-01	8.0000	.3106	.2566	.2731	.5431-02	.4487-02	.4774-02	3.274	20.89	539.1	
187	.0000	.7000-01	9.0000	.2737	.2260	.2419	.4785-02	.3951-02	.4230-02	2.876	20.05	541.0	
187	.0000	.8000-01	10.0000	.2224	.1838	.1976	.3233-02	.3213-02	.3456-02	2.346	16.38	538.7	
187	.0000	.9000-01	11.0000	.2114	.1747	.1835	.3696-02	.3054-02	.3295-02	2.232	14.25	538.0	
187	.0000	.1000+00	12.0000	.1975	.1632	.1767	.3454-02	.2654-02	.3090-02	2.086	12.60	538.1	
187	.0000	.12000	13.0000	.911	.1590	.1717	.3341-02	.2762-02	.3003-02	2.023	11.31	536.5	
187	.0000	.13000	14.0000	.1774	.1466	.1596	.3101-02	.2563-02	.2791-02	1.874	11.02	537.6	
187	.0000	.14000	15.0000	.1649	.1363	.1486	.2883-02	.2384-02	.2598-02	1.744	11.14	537.0	
187	.0000	.15000	16.0000	.1729	.1429	.1561	.3023-02	.2498-02	.2729-02	1.826	11.34	537.9	
187	.0000	.17000	19.0000	.1686	.1393	.1524	.2948-02	.2436-02	.2664-02	1.779	11.35	538.5	

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) CR81TER FUSELAGE

(RV1808)

RU# NUMBER	T-ETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(910) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEC. R /SEC	TH DEC. R
187	00000	10000	20 000	.1682	.1399	.1521	.2941-02	.2423-02	.2659-02	1.773	11.32	539.0
187	00000	10000	21 000	.1598	.1321	.1447	.2764-02	.2309-02	.2530-02	1.691	10.80	536.8
187	00000	10000	22 000	.1597	.1320	.1448	.2763-02	.2307-02	.2531-02	1.684	10.75	538.8
187	00000	10000	23 000	.1485	.1227	.1350	.2591-02	.2146-02	.2350-02	1.559	10.01	537.9
187	00000	10000	24 000	.1531	.1240	.1365	.2621-02	.2169-02	.2353-02	1.595	10.12	538.0
187	00000	10000	25 000	.1259	.1148	.1264	.2423-02	.2037-02	.2210-02	1.455	9.350	538.8
187	00000	10000	26 000	.1410	.1154	.1283	.2455-02	.2036-02	.2243-02	1.481	9.442	541.2
187	00000	10000	27 000	.1344	.1109	.1222	.2349-02	.1939-02	.2137-02	1.411	9.255	541.5
187	00000	10000	28 000	.1249	.1030	.1135	.2183-02	.1801-02	.1985-02	1.307	8.830	543.1
187	00000	10000	29 000	.1128	.9310-01	.1026	.1972-02	.1627-02	.1794-02	1.180	8.215	543.8
187	00000	10000	30 000	.1050	.8990-01	.9910-01	.1906-02	.1572-02	.1733-02	1.137	8.439	545.3
187	00000	10000	31 000	.9530-01	.8210-01	.9050-01	.1740-02	.1435-02	.1582-02	1.037	7.694	546.0
187	00000	10000	32 000	.9480-01	.7810-01	.8510-01	.1657-02	.1355-02	.1506-02	.9950	7.334	547.3
187	00000	10000	33 000	.9470-01	.7770-01	.8570-01	.1643-02	.1353-02	.1498-02	.9500	7.512	547.6
187	00000	10000	34 000	.9190-01	.7570-01	.8350-01	.1606-02	.1324-02	.1460-02	.9550	7.085	547.0
187	00000	10000	35 000	.8710-01	.6200-01	.6620-01	.1697-02	.1393-02	.1543-02	1.010	7.433	546.6
187	00000	10000	36 000	.8780-01	.7230-01	.8070-01	.1536-02	.1266-02	.1411-02	.9150	7.825	546.0
187	00000	10000	37 000	.8620-01	.7110-01	.7930-01	.1507-02	.1243-02	.1387-02	.9010	6.473	544.2
187	00000	10000	38 000	.7140-01	.5930-01	.6550-01	.1249-02	.1031-02	.1153-02	.7480	6.177	542.9
187	00000	10000	39 000	.6680-01	.5600-01	.6450-01	.1220-02	.1005-02	.1128-02	.7300	6.027	543.2
187	00000	10000	40 000	.5930-01	.5530-01	.6330-01	.1194-02	.9846-03	.1107-02	.7130	5.887	544.2
187	00000	10000	41 000	.5070-01	.4330-01	.4720-01	.8553-03	.7325-03	.8253-03	.5360	3.992	537.6
187	00000	10000	42 000	.4540-01	.3750-01	.4230-01	.7946-03	.6565-03	.7397-03	.4800	3.846	538.1
187	00000	10000	43 000	.3660-01	.3000-01	.3410-01	.6400-03	.5269-03	.5958-03	.3860	3.258	538.2
187	00000	10000	44 000	.4400-02	.3600-02	.4400-02	.7699-04	.6374-04	.7689-04	.4700-01	.2870	526.8
187	00000	10000	45 000	.7400-02	.6100-02	.7400-02	.1293-03	.1072-03	.1293-03	.8000-01	.4970	526.0
187	00000	10000	46 000	.1200-01	.9930-02	.1200-01	.2093-03	.1737-03	.2094-02	1.374	10.93	545.3
187	00000	10000	47 000	.1317	.1655	.1159	.2394-02	.1900-02	.2094-02	1.293	10.19	545.3
187	00000	10000	48 000	.1235	.1017	.1122	.2153-02	.1773-02	.1982-02	1.253	10.19	547.6
187	00000	10000	49 000	.8210-01	.6770-01	.7460-01	.1436-02	.1183-02	.1305-02	.8330	7.591	548.1
187	00000	10000	50 000	.9530-01	.8220-01	.9070-01	.1745-02	.1437-02	.1583-02	1.036	7.677	548.1
187	00000	10000	51 000	.9150-01	.7340-01	.8310-01	.1599-02	.1318-02	.1454-02	.9520	7.061	546.6
187	00000	10000	52 000	.7680-01	.6340-01	.7070-01	.1344-02	.1108-02	.1237-02	.8030	6.388	544.3
187	00000	10000	53 000	.2744	.2268	.2744	.4873-02	.4031-02	.4678-02	2.951	17.35	538.7
187	00000	10000	54 000	.1510	.1579	.1913	.3330-02	.2806-02	.3396-02	2.054	13.11	538.7
187	00000	10000	55 000	.1297	.1269	.1297	.2269-02	.1859-02	.2269-02	1.345	9.964	549.0
187	00000	10000	56 000	.1277	.1252	.1277	.2232-02	.1840-02	.2232-02	1.328	9.848	547.0
187	00000	10000	57 000	.1346	.1110	.1346	.2353-02	.1940-02	.2353-02	1.403	10.41	545.9
187	00000	10000	58 000	.2333	.1330	.2333	.4144-02	.3431-02	.4144-02	2.520	14.09	536.0
187	00000	10000	59 000	.9500-02	.7300-02	.9500-02	.1653-03	.1375-03	.1653-03	1.020	6.380	526.1
187	00000	10000	60 000	.2830	.2338	.2830	.5030-02	.4157-02	.5030-02	3.041	19.40	539.1
188	00000	10000	107 000	.2034	.1680	.2034	.3615-02	.2986-02	.3615-02	2.180	19.46	540.7

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) OREITER FUSELAGE

(RV1808)

BUN NUMBER	THETA	X/L	°/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DCG. R /SEC	TW DEG. R
187	30.000	92500	973.00	.1060	.8750-01	.1060	.1854-02	.1529-02	.1854-02	1.109	8.234	543.9
187	30.000	95000	974.00	.1248	.1029	.1248	.2182-02	.1800-02	.2182-02	1.305	9.691	543.9
187	30.000	97500	975.00	.6460-01	.5340-01	.6460-01	.1130-02	.9344-03	.1130-02	.6860	5.117	534.9
187	31.500	20000	128.00	.1402	.1153	.1402	.2492-02	.2059-02	.2492-02	1.503	15.25	540.6
187	32.000	42000	831.00	.1465	.1225	.1350	.2535-02	.2142-02	.2361-02	1.555	10.83	543.2
187	32.000	50000	832.00	.1235	.1067	.1177	.2265-02	.1866-02	.2058-02	1.347	9.664	547.2
187	32.000	60000	833.00	.1163	.9580-01	.1057	.2034-02	.1675-02	.1848-02	1.205	8.115	549.3
187	32.000	70000	834.00	.1052	.8670-01	.9560-01	.1839-02	.1516-02	.1671-02	1.093	8.381	547.7
187	32.000	80000	835.00	.9500-01	.7240-01	.7290-01	.1535-02	.1267-02	.1337-02	.9150	6.557	545.4
187	32.000	90000	836.00	.7920-01	.6540-01	.7290-01	.1385-02	.1143-02	.1275-02	.8280	6.149	541.2
187	32.000	95000	837.00	.6750-01	.7220-01	.8100-01	.1531-02	.1263-02	.1417-02	.9160	7.038	543.6
187	32.000	97500	838.00	.5700-01	.8030-01	.9000-01	.1605-02	.1339-02	.1573-02	1.015	8.076	543.6
187	32.000	1.0150	839.00	.5490-01	.4530-01	.4930-01	.9534-03	.7528-03	.8614-03	.5730	4.705	538.4
187	32.000	1.0300	840.00	.5590-01	.4700-01	.5110-01	.9942-03	.8218-03	.8928-03	.6010	4.715	537.3
187	32.000	1.0450	841.00	.6160-01	.5090-01	.5530-01	.1078-02	.8907-03	.9678-03	.6510	5.014	538.2
187	32.000	1.0600	842.00	.5320-01	.4400-01	.4780-01	.9303-03	.7690-03	.8354-03	.5630	4.659	537.2
188	35.000	50000-01	115.00	.1218	.1003	.1213	.2155-02	.1732-02	.2117-02	8.450	16.27	533.6
188	35.000	50000	116.00	.1533	.1241	.1503	.2672-02	.2205-02	.2672-02	1.605	16.27	542.8
188	35.000	50000-01	117.00	.1100	.9100-01	.1100	.1556-02	.1619-02	.1955-02	1.192	7.627	534.1
188	40.000	10000-01	121.00	.6690-01	.5540-01	.6690-01	.1183-02	.9365-05	.1183-02	.7290	4.668	531.1
188	40.000	15000	111.00	.2241	.1650	.2241	.3933-02	.3239-02	.3933-02	2.399	17.64	541.3
188	40.000	20000	112.00	.1409	.1164	.1403	.2505-02	.2068-02	.2505-02	1.508	16.82	541.5
188	42.500	50000-01	127.00	.2510-01	.7130-01	.6610-01	.1530-02	.1267-02	.1530-02	.9350	6.353	532.4
188	45.000	15000	117.00	.9390-01	.7770-01	.9390-01	.1659-02	.1382-02	.1659-02	1.019	6.010	532.9
187	45.000	35000	973.00	.1400-01	.1160-01	.1400-01	.2447-03	.2027-03	.2447-03	1.500	1.122	529.1
187	45.000	87500	978.00	.1000-02	.9000-03	.1000-02	.1799-04	.1491-04	.1799-04	.7000-02	.5200-01	527.4
189	51.000	50000-01	979.00	.4750-01	.3940-01	.4750-01	.8448-03	.6997-03	.8448-03	.5170	3.315	531.2
189	51.000	50000	979.00	.2010-01	.1660-01	.2010-01	.3559-03	.2958-03	.3559-03	.2190	1.492	529.0
189	51.000	50000	979.00	.2900-01	.2400-01	.2900-01	.5153-03	.4259-03	.5153-03	.3160	2.356	529.8
187	55.000	97500	977.00	.3000-03	.4000-03	.3000-03	.8463-05	.7016-05	.8463-05	.3300-01	.3300-01	527.0
187	55.000	97500	978.00	.3000-03	.3000-03	.3000-03	.6053-05	.5018-05	.6053-05	.4000-02	.2000-01	526.7
189	55.000	50000	133.00	.2350-01	.1950-01	.2350-01	.3129-03	.2591-03	.3129-03	.2570	1.938	530.5
189	55.000	50000	133.00	.1600-01	.1460-01	.1760-01	.3129-03	.2591-03	.3129-03	.1920	1.536	531.4
189	55.000	50000	133.00	.5000-02	.4900-02	.5000-02	.1045-03	.8652-04	.1045-03	.5400-01	.5140	530.4
189	55.000	50000	133.00	.1500-02	.1300-02	.1500-02	.2737-04	.2263-04	.2737-04	.1700-01	1.350	528.8
189	55.000	50000	133.00	.5000-03	.5000-03	.5000-03	.1577-04	.1331-04	.1577-04	.1000-01	.6000-01	526.5
189	55.000	50000	133.00	.9100-02	.7500-02	.9100-02	.1620-03	.1342-03	.1620-03	.9300-01	.7970	530.3
189	55.000	60100	145.00	.7700-02	.6400-02	.7700-02	.1370-03	.1135-03	.1370-03	.8400-01	.6730	530.6
188	55.000	50000	145.00	.6000-03	.6000-03	.6000-03	.1373-04	.1138-04	.1373-04	.8000-02	.6800-01	527.6
189	55.000	50000-01	145.00	.5400-02	.4500-02	.5400-02	.9576-04	.8023-04	.9576-04	.3000-01	.3000-01	527.2
189	55.000	50000	145.00	.3100-02	.2600-02	.3100-02	.5487-04	.4553-04	.5487-04	.3400-01	.2830	523.9
189	55.000	50000	145.00	.3700-02	.3100-02	.3700-02	.6659-04	.5526-04	.6659-04	.4100-01	.3430	524.1

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AEDC VKF V41B-57A (OH-49B) COLLATIO. DECK

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(RV1808)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	W/HREF R=0.9	W/HREF R=1.0	H/HREF (TAN)	H(GTO) BTU/R FT/SEC	H(TO) BTU/R FT/SEC	H(TAH) BTU/R FT/SEC	QDOT BTU/ FT/SEC	DTWOT DEC. R /SEC	TW DEG. R
188	120.00	.86200	249.00	.4600-02	.3900-02	.4600-02	.8244-04	.6842-04	.8244-04	.5100-01	.3760	523.7
188	120.00	.86500	253.00	.4000-02	.3300-02	.4000-02	.7157-04	.5940-04	.7157-04	.4400-01	.3570	523.8
188	120.00	.86800	257.00	.5500-02	.4600-02	.5500-02	.9757-04	.8097-04	.9757-04	.5100-01	.4730	523.5
188	120.00	.86200	255.00	.5400-02	.4700-02	.5400-02	.9532-04	.7911-04	.9532-04	.5900-01	.4910	523.6
188	125.00	.40100	142.00	.2200-02	.1800-02	.2200-02	.3917-04	.3248-04	.3917-04	.2400-01	.1880	527.2
188	125.00	.50100	143.00	.2700-02	.2200-02	.2700-02	.4738-04	.3927-04	.4738-04	.2500-01	.2420	527.9
188	125.00	.70100	145.00	.1100-02	.9000-03	.1100-02	.1935-04	.1605-04	.1935-04	.1200-01	.6500-01	526.5
188	140.00	.18200	85.000	.2700-02	.2200-02	.2700-02	.4794-04	.3977-04	.4794-04	.3000-01	.2300	525.1
188	140.00	.19300	87.000	.6100-02	.5100-02	.6100-02	.1086-03	.9008-04	.1086-03	.6700-01	.5200	528.1
188	145.00	.80500	259.00	.5900-02	.4900-02	.5900-02	.1038-03	.8615-04	.1038-03	.6400-01	.5030	523.0
188	145.00	.66200	261.00	.6500-02	.5400-02	.6500-02	.1181-03	.9804-04	.1181-03	.7300-01	.6100	523.4
188	150.00	.18000	86.000	.7700-02	.6400-02	.7700-02	.1371-03	.1137-03	.1371-03	.8500-01	.6340	526.7
188	150.00	.18000	84.000	.1000-01	.8300-02	.1000-01	.1778-03	.1474-03	.1778-03	.1100	.8220	526.5
188	150.00	.19200	82.000	.4000-03	.3000-03	.4000-03	.6293-05	.5203-05	.6293-05	.4000-02	.2800-01	536.8
188	155.00	.18000	80.000	.1200-01	.9300-02	.1200-01	.2132-03	.1767-03	.2132-03	.1310	.9950	526.8
188	160.00	.18000	77.000	.1140-01	.9500-02	.1140-01	.2033-03	.1666-03	.2033-03	.1250	1.007	526.5
188	175.00	.15000	81.000	.3200-01	.2700-01	.3200-01	.5842-03	.4843-03	.5842-03	.3600	2.605	528.2
188	175.00	.18500	79.000	.1930-01	.1600-01	.1930-01	.3431-03	.2844-03	.3431-03	.2110	1.582	527.6
188	175.00	.17500	78.000	.2340-01	.1940-01	.2340-01	.4167-03	.3454-03	.4167-03	.2570	1.860	527.7
187	180.00	.10000-01	59.000	.8610-01	.7120-01	.8610-01	.1505-02	.1246-02	.1505-02	.9170	6.851	532.5
187	180.00	.25000-01	60.000	.2430-01	.2010-01	.2430-01	.4244-03	.3516-03	.4244-03	.2600	1.650	528.9
187	180.00	.50000-01	61.000	.1270-01	.1050-01	.1270-01	.2223-03	.1842-03	.2223-03	.1360	.8740	528.8
187	180.00	.75000-01	62.000	.1100-01	.9100-02	.1100-01	.1919-03	.1590-03	.1919-03	.1180	.7560	528.3
187	180.00	.10000-00	63.000	.1400-01	.1160-01	.1400-01	.2439-03	.2021-03	.2439-03	.1500	.9890	528.3
187	180.00	.12500	64.000	.1700-01	.1420-01	.1700-01	.2999-03	.2486-03	.2999-03	.1640	1.293	527.9
187	180.00	.15000	65.000	.2300-01	.1940-01	.2300-01	.4059-03	.3389-03	.4059-03	.2510	1.763	527.8
187	180.00	.15000	66.000	.5010-01	.4150-01	.5010-01	.8766-03	.7264-03	.8766-03	.5380	3.019	528.5
187	180.00	.17000	67.000	.7200-01	.6040-01	.7200-01	.1274-02	.1055-02	.1274-02	.7790	4.371	530.3
187	180.00	.15000	69.000	.1620-01	.1340-01	.1620-01	.2635-03	.2351-03	.2635-03	.1740	1.089	526.6
187	180.00	.20000	72.000	.3300-02	.2700-02	.3300-02	.5745-04	.4763-04	.5745-04	.3030	.3030	526.6
187	180.00	.40100	73.000	.2700-02	.2300-02	.2700-02	.4769-04	.3954-04	.4769-04	.2900-01	.2520	526.4
187	180.00	.40100	74.000	.4700-02	.3900-02	.4700-02	.6749-04	.6749-04	.6749-04	.5000-01	.4160	526.3
187	180.00	.70100	75.000	.4700-02	.3900-02	.4700-02	.8162-04	.6769-04	.8162-04	.5000-01	.4050	525.4

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AEDC VKF V418-57A (OH-49B) COLLATION DECK

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FUSELAGE

OH-49B (AEDC V418-57A) ORB TER FUSELAGE

(RV1808)

## PARAMETRIC DATA

ALPHA = 5.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PC PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
160	7.940	1.028	45.12	.0000	180.0	210.2	.2300-01	1261.	92.70	.9980	3745.	.2047-04
161	7.940	1.024	45.09	.0000	180.0	209.8	.2300-01	1262.	92.70	.9960	3747.	.2041-04
162	7.940	1.032	45.11	.0000	180.0	211.4	.2300-01	1262.	92.80	1.003	3747.	.2056-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R
160	.7459-07	.2446-01	0.0175
161	.7467-07	.2438-01	.4016-01
162	.7467-07	.2447-01	.4023-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAL)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
160	.00000	.00000	1.0000	.5122	.4205	.4669	.1250-01	.1026-01	.1139-01	7.230	40.02	556.2
160	.00000	.50000-02	2.0000	.6775	.5540	.5549	.1553-01	.1352-01	.1354-01	9.351	64.29	569.1
160	.00000	.10000-01	3.0000	.6326	.5178	.5204	.1544-01	.1263-01	.1270-01	8.772	58.56	565.5
160	.00000	.20000-01	4.0000	.4527	.3718	.3817	.1105-01	.9071-02	.9313-02	6.398	35.43	555.5
160	.00000	.30000-01	5.0000	.3579	.2942	.3062	.8732-02	.7177-02	.7471-02	5.082	28.18	552.7
160	.00000	.40000-01	6.0000	.3233	.2659	.2755	.7897-02	.6887-02	.6818-02	4.606	25.57	550.7
160	.00000	.50000-01	7.0000	.2339	.2436	.2592	.7243-02	.5944-02	.6300-02	4.178	28.01	558.0
160	.00000	.60000-01	8.0000	.3045	.2531	.2666	.7429-02	.6122-02	.6534-02	4.307	27.26	555.1
160	.00000	.70000-01	9.0000	.2658	.2181	.2340	.6484-02	.5322-02	.5709-02	3.742	25.87	557.8
160	.00000	.80000-01	10.000	.2148	.1765	.1902	.5242-02	.4306-02	.4639-02	3.041	21.06	554.6
160	.00000	.90000-01	11.000	.2142	.1761	.1903	.5225-02	.4296-02	.4643-02	3.046	19.32	551.8
160	.00000	1.0000-00	12.000	.2008	.1651	.1790	.4900-02	.4028-02	.4368-02	2.895	17.12	552.2
160	.00000	.12000	14.000	.1598	.1314	.1431	.3638-02	.3205-02	.3492-02	2.274	12.63	551.5
160	.00000	.13000	15.000	.1851	.1521	.1660	.4516-02	.3711-02	.4051-02	2.626	15.32	553.2
160	.00000	.14000	16.000	.1637	.1346	.1470	.3594-02	.3283-02	.3587-02	2.326	14.75	552.3
160	.00000	.16000	18.000	.1731	.1423	.1558	.4224-02	.3471-02	.3800-02	2.454	15.12	553.7
160	.00000	.17000	19.000	.1630	.1368	.1522	.4123-02	.3367-02	.3713-02	2.391	15.14	554.7

(RV1808)

## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/R/REF R=0.9	H/R/REF R=1.0	H/R/REF (TAH)	H(1910) BTU/ R FT2SEC	H(101) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
150	.00000	.13000	20.000	.1556	.1368	.1501	.4054-02	.3338-02	.3663-02	2.357	14.92	554.8
150	.00000	.13000	21.000	.1642	.1350	.1482	.4008-02	.3233-02	.3617-02	2.334	14.79	552.3
150	.00000	.22000	22.000	.1609	.1321	.1453	.3922-02	.3222-02	.3544-02	2.276	14.41	554.6
150	.00000	.22000	23.000	.1518	.1247	.1375	.3704-02	.3043-02	.3355-02	2.152	13.63	553.6
150	.00000	.25000	24.000	.1460	.1199	.1324	.3561-02	.2928-02	.3231-02	2.069	13.11	553.8
150	.00000	.30000	25.000	.1350	.1117	.1234	.3319-02	.2726-02	.3011-02	1.980	12.19	554.5
150	.00000	.35000	26.000	.1406	.1154	.1275	.3431-02	.2815-02	.3110-02	1.980	12.52	557.5
150	.00000	.40000	27.000	.1349	.1107	.1223	.3291-02	.2701-02	.2994-02	1.899	12.35	557.7
150	.00000	.45000	28.000	.1174	.0930-01	.1065	.2865-02	.2350-02	.2597-02	1.648	11.04	559.5
150	.00000	.50000	29.000	.1034	.8970-01	.9920-01	.2665-02	.2139-02	.2420-02	1.534	10.59	560.2
150	.00000	.55000	30.000	.1048	.8970-01	.9920-01	.2557-02	.2095-02	.2317-02	1.464	10.77	562.2
150	.00000	.60000	31.000	.9600-01	.7250-01	.8700-01	.2342-02	.1919-02	.2122-02	1.340	9.859	562.5
150	.00000	.65000	32.000	.8800-01	.7250-01	.8000-01	.2154-02	.1764-02	.1951-02	1.228	9.029	564.5
150	.00000	.70000	33.000	.8600-01	.7250-01	.8000-01	.2172-02	.1773-02	.1957-02	1.237	9.400	565.4
150	.00000	.75000	34.000	.8600-01	.7250-01	.8000-01	.2225-02	.1823-02	.1945-02	1.223	9.889	565.2
150	.00000	.80000	35.000	.8600-01	.7250-01	.8000-01	.2115-02	.1757-02	.1953-02	1.223	9.302	564.4
150	.00000	.85000	36.000	.8600-01	.7250-01	.8000-01	.2104-02	.1724-02	.1931-02	1.205	8.581	562.1
150	.00000	.90000	37.000	.8600-01	.7250-01	.8000-01	.1725-02	.1414-02	.1597-02	.9890	8.086	561.6
150	.00000	.95000	38.000	.7030-01	.5750-01	.6480-01	.1715-02	.1405-02	.1582-02	.9810	8.017	562.8
150	.00000	.97500	39.000	.7030-01	.5750-01	.6480-01	.1713-02	.1402-02	.1581-02	.9750	7.957	565.7
150	.00000	1.0150	40.000	.5750-01	.4750-01	.5360-01	.1410-02	.1157-02	.1303-02	.8140	6.008	557.1
150	.00000	1.0300	41.000	.5750-01	.4750-01	.5360-01	.1384-02	.1121-02	.1267-02	.7910	5.841	555.1
150	.00000	1.0450	42.000	.5750-01	.4750-01	.5360-01	.1223-02	.1004-02	.1135-02	.7080	5.596	556.1
150	.00000	1.0600	43.000	.4230-01	.3530-01	.3980-01	.1045-02	.8578-03	.9697-03	.6050	5.052	556.0
150	.00000	1.0800	44.000	.4230-01	.3530-01	.3980-01	.1204-03	.9935-04	.1204-03	.7200-01	.4330	539.3
150	.00000	1.1000	45.000	.4230-01	.3530-01	.3980-01	.1790-03	.1478-03	.1790-03	.1070	.6630	537.6
150	.00000	1.1200	46.000	.4230-01	.3530-01	.3980-01	.1633-03	.1347-03	.1633-03	.9700-01	.5860	539.7
150	.00000	1.1400	47.000	.4230-01	.3530-01	.3980-01	.3190-02	.2614-02	.2830-02	1.823	14.37	563.3
150	.00000	1.1600	48.000	.4230-01	.3530-01	.3980-01	.2930-02	.2405-02	.2651-02	1.673	13.16	565.5
150	.00000	1.1800	49.000	.4230-01	.3530-01	.3980-01	.1871-02	.1532-02	.1695-02	1.065	9.388	565.6
150	.00000	1.2000	50.000	.4230-01	.3530-01	.3980-01	.2215-02	.1813-02	.2008-02	1.258	9.233	567.0
150	.00000	1.2200	51.000	.4230-01	.3530-01	.3980-01	.2209-02	.1808-02	.1999-02	1.258	9.242	565.1
150	.00000	1.2400	52.000	.4230-01	.3530-01	.3980-01	.1837-02	.1506-02	.1665-02	1.052	8.295	562.0
150	.00000	1.2600	53.000	.4230-01	.3530-01	.3980-01	.6715-02	.5531-02	.5715-02	3.954	23.15	547.1
150	.00000	1.2800	54.000	.4230-01	.3530-01	.3980-01	.4573-02	.3767-02	.4573-02	2.697	17.15	546.0
150	.00000	1.3000	55.000	.4230-01	.3530-01	.3980-01	.3904-02	.3192-02	.3304-02	2.208	16.19	569.1
150	.00000	1.3200	56.000	.4230-01	.3530-01	.3980-01	.3638-02	.3140-02	.3238-02	2.179	15.99	567.1
150	.00000	1.3400	57.000	.4230-01	.3530-01	.3980-01	.3673-02	.3007-02	.3573-02	2.090	15.35	565.8
150	.00000	1.3600	58.000	.4230-01	.3530-01	.3980-01	.5615-02	.4532-02	.5615-02	3.341	18.64	540.9
150	.00000	1.3800	59.000	.4230-01	.3530-01	.3980-01	.2755-03	.2275-03	.2755-03	1.640	1.021	538.1
150	.00000	1.4000	60.000	.4230-01	.3530-01	.3980-01	.6864-02	.5651-02	.6864-02	4.035	25.63	548.1
150	.00000	1.4200	61.000	.4230-01	.3530-01	.3980-01	.4960-02	.4030-02	.4960-02	2.901	25.77	551.0

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



(RV1808)

AEDC VKF V41B-57A (OH-498) COLLATION DECK

OH-498 (AEDC V41B-57A) ORIENTATION FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF P=0.9	H/HREF R=1.0	H/HREF (TAW)	H(1TO) BTU/ R F12SEC	H(1TO) BTU/ R F12SEC	H(1TAW) BTU/ R F12SEC	QDOT BTU/ R F12SEC	OTDOT DEG. R /SEC	TW DEG. R
160	30.000	.92500	970.00	.1552	.1272	.1552	.3787-02	.3103-02	.3787-02	2.166	15.93	562.9
160	30.000	.95000	974.00	.1817	.1488	.1817	.4434-02	.3631-02	.4434-02	2.527	18.57	564.9
160	30.000	.97500	979.00	.1038	.8540-01	.1038	.2534-02	.2083-02	.2534-02	1.478	10.94	551.2
161	31.500	.20000	108.00	.1414	.1153	.1414	.3447-02	.2635-02	.3447-02	2.018	20.37	550.5
160	32.000	.40000	831.00	.1511	.1239	.1370	.3587-02	.3024-02	.3442-02	2.118	14.63	560.2
160	2.000	.50000	832.00	.1308	.1071	.1184	.3190-02	.2612-02	.2890-02	1.818	12.93	564.9
160	32.000	.60000	833.00	.1156	.9400-01	.1047	.2821-02	.2308-02	.2554-02	1.602	10.69	566.9
160	32.000	.70000	834.00	.9550-01	.7820-01	.6650-01	.2333-02	.1909-02	.2112-02	1.324	10.05	567.3
160	32.000	.80000	835.00	.6690-01	.7120-01	.7870-01	.2121-02	.1735-02	.1921-02	1.208	8.591	565.1
160	32.000	.90000	836.00	.7920-01	.6490-01	.7270-01	.1932-02	.1583-02	.1773-02	1.107	9.149	561.7
160	32.000	.95000	837.00	.8900-01	.7300-01	.8210-01	.2172-02	.1781-02	.2004-02	1.246	9.488	561.3
160	32.000	.97500	838.00	.9140-01	.7490-01	.8450-01	.2230-02	.1828-02	.2052-02	1.278	10.08	561.5
160	32.000	1.01500	839.00	.5790-01	.4750-01	.5180-01	.1413-02	.1160-02	.1283-02	.8160	6.557	557.3
160	32.000	1.03000	840.00	.6070-01	.4580-01	.5420-01	.1480-02	.1215-02	.1324-02	.8570	6.664	555.4
160	32.000	1.04500	841.00	.6350-01	.5210-01	.5660-01	.1549-02	.1272-02	.1385-02	.8970	6.853	555.4
160	32.000	1.06000	842.00	.5370-01	.4410-01	.4810-01	.1311-02	.1077-02	.1173-02	.7610	6.243	554.3
161	35.000	.50000-01	115.00	.1181	.9750-01	.1181	.2879-02	.2376-02	.2879-02	1.717	10.96	539.4
161	35.000	.20000	110.00	.1491	.1226	.1491	.3635-02	.2988-02	.3635-02	2.118	21.34	553.4
161	39.000	.10000+00	116.00	.1036	.8550-01	.1036	.2527-02	.2085-02	.2527-02	1.505	9.596	540.4
161	40.000	.75000-01	121.00	.6200-01	.5390-01	.6520-01	.1590-02	.1313-02	.1590-02	.9500	6.067	538.3
161	40.000	.15000	111.00	.2222	.1827	.2222	.5416-02	.4453-02	.5416-02	3.161	23.38	552.2
161	40.000	.20000	112.00	.1382	.1136	.1382	.3370-02	.2763-02	.3370-02	1.961	21.73	554.0
161	42.500	.50000-01	127.00	.8080-01	.6670-01	.8080-01	.1959-02	.1626-02	.1959-02	1.178	7.979	537.6
161	45.000	.15000	117.00	.9010-01	.7430-01	.9010-01	.2197-02	.1812-02	.2197-02	1.307	7.674	541.0
160	45.000	.92500	969.00	.2950-01	.2430-01	.2950-01	.7200-03	.5938-03	.7200-03	.4270	3.173	541.9
160	45.000	.95000	973.00	.1800-02	.1500-02	.1800-02	.4347-04	.3530-04	.4347-04	.2600-01	.1930	537.6
160	45.000	.97500	978.00	.1400-02	.1200-02	.1400-02	.3514-04	.2902-04	.3514-04	.2100-01	.1570	537.0
161	51.000	.20000	118.00	.4590-01	.3790-01	.4590-01	.1119-03	.9235-03	.1119-03	.6660	4.249	540.6
161	50.000	.50000-01	131.00	.1850-01	.1530-01	.1850-01	.4517-03	.3733-03	.4517-03	.2720	1.842	534.7
161	67.500	.20000	128.00	.2800-01	.2310-01	.2800-01	.6815-03	.5633-03	.6815-03	.4060	3.019	540.4
160	85.000	.97500	977.00	.5000-03	.5000-03	.5000-03	.1560-04	.1288-04	.1560-04	.9000-02	.7000-01	536.8
160	105.000	.40100	135.00	.3000-03	.2000-03	.3000-03	.6326-05	.5225-05	.6326-05	.4000-02	.2800-01	536.3
161	105.000	.60100	136.00	.2480-01	.2050-01	.2480-01	.6048-03	.4987-03	.6048-03	.3590	2.769	542.9
161	105.000	.80100	137.00	.2450-01	.2020-01	.2450-01	.5865-03	.4934-03	.5865-03	.3550	2.823	543.2
161	105.000	.90100	138.00	.5700-02	.4700-02	.5700-02	.1394-03	.1150-03	.1394-03	.9300-01	.6590	542.1
161	105.000	.95000	139.00	.1400-02	.1200-02	.1400-02	.3480-04	.2872-04	.3480-04	.2100-01	.1650	540.6
161	105.000	.97500	140.00	.1500-02	.1300-02	.1500-02	.4440-04	.3665-04	.4440-04	.2700-01	.2120	538.5
161	113.000	.60100	145.00	.1010-01	.6300-02	.1010-01	.2455-03	.2025-03	.2455-03	.1460	1.162	541.8
161	116.000	.80100	147.00	.8700-02	.7100-02	.8700-02	.1712-03	.1412-03	.1712-03	.1250	.9990	542.1
161	116.000	.95000	148.00	.2400-02	.2000-02	.2400-02	.5836-04	.4817-04	.5836-04	.3500-01	.2770	539.9
161	120.000	.10000+00	132.00	.4200-02	.3400-02	.4200-02	.1018-03	.8407-04	.1018-03	.6100-01	.3690	536.0
161	120.000	.80500	247.00	.2500-02	.2100-02	.2500-02	.6034-04	.5035-04	.6034-04	.3700-01	.3020	535.5
161	120.000	.82500	248.00	.3400-02	.2800-02	.3400-02	.8258-04	.6824-04	.8258-04	.5000-01	.4090	535.3

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## OH-49B (AECG V41B-57A) ORBITER FUSELAGE

LINE	ALPHA	X/Y	T/C NO	H/HREF R=0.3	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
151	120.00	.88200	249.00	1200-02	4300-02	5200-02	1275-03	1053-03	1275-03	.7700-01	.5600	534.8
152	130.00	.88200	253.00	1300-02	2400-02	2900-02	7135-04	5897-04	7135-04	4300-01	.3430	535.2
153	130.00	.88200	254.00	4300-02	3500-02	4300-02	1048-03	8659-04	1048-03	6300-01	.4630	534.7
154	130.00	.88200	255.00	5000-02	5000-02	5000-02	1220-03	1009-03	1220-03	7300-01	.6050	534.5
155	135.00	.40100	142.00	1300-02	1100-02	1300-02	3357-04	2697-04	3357-04	1500-01	.1510	539.3
156	135.00	.50100	143.00	2000-02	1700-02	2000-02	4952-04	1095-04	4952-04	3000-01	.2440	539.6
157	135.00	.60100	144.00	1200-03	5000-03	1300-03	1337-04	1337-04	1337-04	1500-01	.7500-01	539.8
158	135.00	.70100	145.00	1300-02	1100-02	1300-02	3157-04	2615-04	3157-04	1500-01	.1510	539.7
159	135.00	.80100	146.00	5000-02	8100-02	5900-02	2397-03	1990-03	2397-03	1440	1.108	535.5
160	135.00	.90100	147.00	6300-02	6300-02	7700-02	1873-03	1546-03	1873-03	1120	.6810	538.9
161	140.00	.88200	256.00	4500-02	3700-02	4500-02	1087-03	8987-04	1087-03	5500-01	.5070	535.1
162	140.00	.88200	257.00	5400-02	4400-02	5400-02	1317-03	1088-03	1317-03	7900-01	.5950	535.2
163	140.00	.88200	258.00	5000-02	4600-02	5800-02	1415-03	1170-03	1415-03	6500-01	.7050	533.6
164	140.00	.88200	259.00	1150-01	9900-02	1190-01	2912-03	2404-03	2912-03	1740	1.236	538.3
165	140.00	.88200	260.00	1450-01	1150-01	1450-01	3471-03	2855-03	3471-03	2070	1.544	538.7
166	140.00	.88200	261.00	4000-03	3000-03	4000-03	1022-04	8449-05	1022-04	6000-02	.4500-01	533.1
167	140.00	.88200	262.00	1750-01	1470-01	1750-01	4347-03	3588-03	4347-03	2500	1.932	538.9
168	140.00	.88200	263.00	1023-01	5400-02	1120-01	2478-03	2046-03	2478-03	1480	1.180	539.0
169	140.00	.88200	264.00	4390-01	7200-01	4390-01	1059-02	8824-03	1059-02	6370	4.585	540.4
170	175.00	.88200	73.000	2150-01	2150-01	2150-01	5249-03	4332-03	5249-03	3130	2.331	539.4
171	175.00	.88200	73.000	2530-01	2130-01	2530-01	6235-03	5195-03	6235-03	3750	2.703	539.8
172	175.00	.88200	73.000	8160-01	6740-01	8160-01	1936-02	1644-02	1936-02	1.178	8.743	544.6
173	175.00	.88200	73.000	2110-01	1740-01	2110-01	5148-03	4245-03	5148-03	3050	2.197	541.7
174	175.00	.88200	73.000	1210-01	1000-01	1210-01	2950-03	2434-03	2950-03	1750	1.118	540.6
175	175.00	.88200	73.000	1410-01	1170-01	1410-01	3451-03	2847-03	3451-03	2050	1.309	540.3
176	175.00	.88200	73.000	2170-01	1730-01	2170-01	5300-03	4373-03	5300-03	3150	2.070	540.0
177	175.00	.88200	73.000	2420-01	2000-01	2420-01	5509-03	4475-03	5509-03	3320	2.453	539.8
178	175.00	.88200	73.000	2300-01	2300-01	2300-01	7064-03	5869-03	7064-03	4200	2.932	539.8
179	175.00	.88200	73.000	2200-01	6010-01	2200-01	1779-02	1467-02	1779-02	1.054	5.874	542.5
180	175.00	.88200	73.000	9210-01	7590-01	9210-01	2247-02	1852-02	2247-02	1.328	7.339	543.6
181	175.00	.88200	73.000	1820-01	1550-01	1820-01	4585-03	3785-03	4585-03	2730	1.596	538.7
182	175.00	.88200	73.000	5500-02	4500-02	5500-02	1353-03	1121-03	1353-03	8100-01	.6910	537.6
183	175.00	.88200	73.000	4400-02	3700-02	4400-02	1080-03	8920-04	1080-03	6000-01	.5500	537.5
184	175.00	.88200	73.000	4600-02	3300-02	4600-02	1162-03	9598-04	1162-03	6300-01	.5730	537.3
185	175.00	.88200	73.000	4300-02	3500-02	4300-02	1040-03	8590-04	1040-03	6000-01	.4980	536.0

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FUSELAGE

OH-49B (AEDC V41B-57A) OFB1TER FUSELAGE

(RV1B08)

## PARAMETRIC DATA

ALPHA = 15.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PC PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
133	7.970	1.529	45.14	.0000	180.0	315.8	.3400-01	1271.	92.80	1.493	3762.	.3036-04
134	7.970	1.531	45.12	.0000	180.0	322.0	.3400-01	1275.	93.10	1.503	3766.	.3046-04
135	7.970	1.518	45.11	.0000	180.0	320.0	.3400-01	1280.	93.40	1.497	3774.	.3024-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	WREF BTU/R FT <sup>2</sup> SEC	ST FR R =
133	.7470-07	.2989-01	0.0175
134	.7496-07	.3001-01	.3237-01
135	.7519-07	.2997-01	.3309-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAL)	H(GTO) BTU/R FT <sup>2</sup> SEC	H(TO) BTU/R FT <sup>2</sup> SEC	H(TAW) BTU/R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TW DEG. R
133	.00000	.00000	1.0000	.5173	.4255	.4720	.1546-01	.1272-01	.1411-01	9.118	50.51	554.6
133	.00000	.50000-02	2.0000	.5580	.5466	.5474	.1996-01	.1634-01	.1636-01	11.43	78.47	571.9
133	.00000	.10000-01	3.0000	.6332	.5187	.5212	.1893-01	.1550-01	.1558-01	10.90	72.67	568.5
133	.00000	.20000-01	4.0000	.4511	.3712	.3810	.1348-01	.1109-01	.1139-01	7.963	44.14	553.7
133	.00000	.30000-01	5.0000	.3560	.2333	.3031	.1084-01	.8768-02	.9120-02	6.324	35.12	550.0
133	.00000	.40000-01	6.0000	.3025	.2494	.2630	.9041-02	.7454-02	.8330-02	5.399	30.03	547.1
133	.00000	.50000-01	7.0000	.3035	.2495	.2633	.9072-02	.7458-02	.7301-02	5.323	35.75	556.9
133	.00000	.60000-01	8.0000	.3066	.2323	.2637	.9133-02	.7540-02	.8032-02	5.413	34.23	553.5
133	.00000	.70000-01	9.0000	.2036	.2217	.2378	.8059-02	.6626-02	.7102-02	4.734	32.75	556.9
133	.00000	.80000-01	10.0000	.2133	.1909	.1948	.6571-02	.5408-02	.5622-02	3.884	26.92	553.2
133	.00000	.90000-01	11.0000	.2125	.1751	.1831	.6333-02	.5234-02	.5522-02	3.778	23.93	549.6
133	.00000	.10000+00	12.0000	.2036	.1652	.1731	.5933-02	.4933-02	.5352-02	3.562	21.38	550.3
133	.00000	.12000	14.0000	.1978	.1680-01	.1731	.3221-02	.2655-02	.2633-02	1.920	10.67	548.1
133	.00000	.13000	15.0000	.1939	.1482	.1616	.5378-02	.4431-02	.4830-02	3.198	18.70	548.6
133	.00000	.14000	16.0000	.1935	.1464	.1536	.4948-02	.4076-02	.4448-02	2.946	18.70	548.8
133	.00000	.15000	17.0000	.1694	.1355	.1528	.5084-02	.4171-02	.4562-02	3.006	18.54	550.8
133	.00000	.17000	19.0000	.1677	.1381	.1512	.5013-02	.4127-02	.4519-02	2.968	18.82	552.1



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OH-49B (AEDC V41B-57A) CRBITTER FUSELAGE

RUN NO.	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF P=1.0	H/HREF (TAW)	H(9T0) BTU/R FT2SEC	H(10) BTU/R FT2SEC	H(14H) BTU/R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
133	30.000	.92500	970.00	.1622	.1330	.1622	.4647-02	.3974-02	.4947-02	2.804	20.60	565.8
133	30.000	.95000	974.00	.2008	.1543	.2008	.6001-02	.4911-02	.6001-02	3.439	25.18	571.4
133	30.000	.97500	979.00	.1157	.9520-01	.1157	.3457-02	.2844-02	.3457-02	15.08	15.08	554.0
134	31.500	.20000	108.00	.1387	.1142	.1387	.4162-02	.3426-02	.4162-02	2.472	24.91	554.3
133	32.000	.40000	831.00	.1503	.1235	.1503	.4494-02	.3690-02	.4075-02	2.625	18.13	560.2
133	32.000	.50000	832.00	.1300	.1035	.1300	.3885-02	.3182-02	.3819-02	2.237	15.88	568.4
133	32.000	.60000	833.00	.1121	.9720-01	.1015	.3355-02	.2742-02	.3033-02	1.920	12.79	571.2
133	32.000	.70000	834.00	.0910-01	.7630-01	.8060-01	.2663-02	.2177-02	.2410-02	1.519	11.50	573.7
133	32.000	.80000	835.00	.0710-01	.7460-01	.8950-01	.2724-02	.2230-02	.2406-02	1.561	11.07	571.2
133	32.000	.90000	836.00	.0900-01	.9330-01	.8950-01	.2930-02	.2400-02	.2688-02	1.586	12.37	568.7
133	32.000	.95000	837.00	.1131	.3230-01	.1042	.3379-02	.2767-02	.3115-02	1.944	14.75	569.0
133	32.000	.97500	838.00	.1179	.0940-01	.1089	.3521-02	.2892-02	.3254-02	2.019	15.85	570.8
133	32.000	1.0150	839.00	.0840-01	.6630-01	.7180-01	.2402-02	.1970-02	.2147-02	1.332	11.16	564.9
133	32.000	1.0300	840.00	.0540-01	.5100-01	.7640-01	.2554-02	.2096-02	.2284-02	1.488	11.53	561.5
133	32.000	1.0450	841.00	.0530-01	.7450-01	.8120-01	.2714-02	.2228-02	.2427-02	1.581	12.04	561.8
133	32.000	1.0600	842.00	.0760-01	.6330-01	.6230-01	.2299-02	.1899-02	.2057-02	1.344	11.00	559.7
134	35.000	.50000-01	115.00	.1203	.9340-01	.1203	.3510-02	.2892-02	.3511-02	2.190	13.96	541.6
134	35.000	.60000	110.00	.1504	.1237	.1504	.4514-02	.3712-02	.4514-02	2.665	26.80	557.9
134	39.000	.10000+00	116.00	.1016	.8390-01	.1016	.3048-02	.2518-02	.3048-02	1.849	11.78	541.6
134	40.000	.76000-01	121.00	.0710-01	.5550-01	.6710-01	.2015-02	.1666-02	.2015-02	1.226	7.824	539.7
134	40.000	.15000	111.00	.2251	.1852	.2251	.6756-02	.5558-02	.6756-02	4.001	29.54	556.1
134	42.500	.50000-01	127.00	.1330	.1143	.1330	.4173-02	.3431-02	.4173-02	2.463	27.24	558.2
134	45.000	.15000	117.00	.0930-01	.7400-01	.8960-01	.2693-02	.2222-02	.2693-02	1.632	9.578	541.6
133	45.000	.95000	969.00	.3770-01	.3120-01	.3770-01	.1133-02	.9315-03	.1128-02	.6800	5.055	541.6
133	45.000	.95000	973.00	.2200-02	.1800-02	.2200-02	.6513-04	.5366-04	.5513-04	4.000-01	.2950	536.9
134	51.000	.97500	979.00	.1800-02	.1400-02	.1800-02	.5236-04	.4330-04	.5236-04	3.200-01	.2370	536.3
134	60.000	.50000-01	131.00	.1710-01	.1200-01	.1710-01	.1374-02	.1136-02	.1374-02	3.150	2.139	534.9
134	67.500	.20000	128.00	.2780-01	.2300-01	.2780-01	.8356-03	.6908-03	.8356-03	.5080	3.784	539.8
133	75.000	.97500	979.00	.5000-03	.4000-03	.5000-03	.1242-04	.1242-04	.1502-04	9.000-02	.6300-01	536.3
133	85.000	.97500	975.00	.2000-03	.2000-03	.2000-03	.6724-05	.5611-05	.6724-05	4.000-02	.3100-01	535.9
134	105.00	.50100	136.00	.2500-01	.2300-01	.2500-01	.7354-03	.6083-03	.7354-03	4.460	3.448	542.1
134	105.00	.50100	137.00	.2500-02	.3000-02	.2500-02	.1344-03	.1111-03	.1344-03	4.860	3.859	541.4
134	105.00	.70100	138.00	.1600-02	.1200-02	.1600-02	.4935-04	.3998-04	.4836-04	2.930-01	.6500	539.7
134	105.00	.80000	139.00	.2000-02	.1600-02	.2000-02	.5975-04	.4942-04	.5975-04	2.930-01	.2910	537.8
134	113.00	.60100	145.00	.6000-02	.7000-02	.6000-02	.2695-03	.2227-03	.2695-03	1.640	1.304	541.2
134	116.00	.60100	147.00	.6000-02	.7000-02	.6000-02	.2520-03	.2083-03	.2520-03	1.530	1.220	541.0
134	116.00	.70100	148.00	.3000-02	.2600-02	.3000-02	.9329-04	.7717-04	.9329-04	1.530	.4350	537.4
134	120.00	.10000+00	132.00	.3000-02	.3000-02	.3000-02	.1036-04	.8886-04	.1036-03	1.530	.4350	535.5
134	120.00	.60000	247.00	.3200-02	.3200-02	.3200-02	.9493-04	.7863-04	.9493-04	5.600-01	.4810	535.2
134	120.00	.60000	248.00	.4100-02	.3400-02	.4100-02	.1231-03	.1019-03	.1231-03	7.500-01	.6230	535.2

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CH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(190) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(17A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEC. R /SEC	TW DEG. R
134	120.00	.86200	249.00	.5400-02	.4500-02	.5400-02	.1632-03	.1351-03	.1632-03	.1000+00	.7330	534.2
134	130.00	.80500	253.00	.2800-02	.2300-02	.2800-02	.8501-04	.7037-04	.8501-04	.5200-01	.4170	534.9
134	130.00	.62300	254.00	.3600-02	.3100-02	.3600-02	.1135-03	.9399-04	.1135-03	.7000-01	.5410	534.3
134	130.00	.86200	255.00	.4500-02	.3700-02	.4500-02	.1353-03	.1121-03	.1353-03	.8300-01	.6670	533.7
134	135.00	.40100	142.00	.1600-02	.1300-02	.1600-02	.4691-04	.3680-04	.4691-04	.2900-01	.2220	537.6
134	135.00	.50100	143.00	.1700-02	.1400-02	.1700-02	.4974-04	.4114-04	.4974-04	.3000-01	.2500	538.2
134	135.00	.60100	144.00	.3000-02	.2400-02	.3000-02	.8857-04	.7324-04	.8857-04	.5400-01	.4180	538.7
134	135.00	.70100	145.00	.1400-02	.1100-02	.1400-02	.4090-04	.3384-04	.4090-04	.2500-01	.2000	537.3
134	140.00	.18000	65.000	.4000-03	.4000-03	.4000-03	.1305-04	.1079-04	.1305-04	.8000-02	.6100-01	538.1
134	140.00	.18500	67.000	.6700-02	.5500-02	.6700-02	.2000-03	.1655-03	.2000-03	.1220	.9420	537.6
134	145.00	.60500	259.00	.2300-02	.1900-02	.2300-02	.6947-04	.5752-04	.6947-04	.4300-01	.3310	534.4
135	145.00	.66200	261.00	.5300-02	.4900-02	.5300-02	.1773-03	.1469-03	.1773-03	.1100	.9070	533.3
134	150.00	.18000	68.000	.1500-01	.1200-01	.1500-01	.3230-03	.2672-03	.3230-03	.1970	1.470	537.6
134	150.00	.18000	68.000	.1500-01	.1200-01	.1500-01	.4644-03	.3942-03	.4644-03	.2840	2.176	537.7
134	155.00	.18000	83.000	.6000-03	.5000-03	.6000-03	.1877-04	.1555-04	.1877-04	.3000-02	.2300-01	533.9
134	160.00	.18000	77.000	.1170-01	.9700-02	.1170-01	.3517-03	.2908-03	.3517-03	.1200-01	.8600-01	533.7
134	175.00	.15000	81.000	.4500-01	.3850-01	.4500-01	.1400-02	.1157-02	.1400-02	.8510	6.124	540.6
134	175.00	.15000	79.000	.2370-01	.1950-01	.2370-01	.7104-03	.5874-03	.7104-03	.4330	3.223	539.0
134	175.00	.17500	78.000	.2300-01	.2420-01	.2300-01	.8775-03	.7255-03	.8775-03	.5340	3.850	539.4
133	180.00	.10000-01	59.000	.7500-01	.6550-01	.7500-01	.2370-02	.1959-02	.2370-02	1.435	10.68	539.0
133	180.00	.25000-01	60.000	.2010-01	.1650-01	.2010-01	.6013-03	.4975-03	.6013-03	.3660	2.643	535.4
133	180.00	.50000-01	61.000	.1190-01	.9900-02	.1190-01	.3568-03	.2951-03	.3568-03	.2170	1.389	535.5
133	180.00	.75000-01	62.000	.1600-01	.1340-01	.1600-01	.4840-03	.4003-03	.4840-03	.2940	1.878	536.9
133	190.00	.10000-00	63.000	.2330-01	.1930-01	.2330-01	.6977-03	.5769-03	.6977-03	.4230	2.783	537.6
133	190.00	.12500	64.000	.2470-01	.2040-01	.2470-01	.7380-03	.6100-03	.7380-03	.4470	3.124	538.1
133	190.00	.15000	65.000	.2300-01	.2390-01	.2300-01	.8659-03	.7157-03	.8659-03	.5250	3.663	538.4
133	190.00	.16000	65.000	.7710-01	.6350-01	.7710-01	.2304-02	.1902-02	.2304-02	1.386	7.727	542.6
133	190.00	.17000	67.000	.9230-01	.7620-01	.9230-01	.2758-02	.2277-02	.2758-02	1.659	9.247	542.7
133	190.00	.20000	69.000	.1870-01	.1540-01	.1870-01	.5520-03	.4614-03	.5520-03	.3330	2.103	537.3
133	190.00	.40100	72.000	.6900-02	.5700-02	.6900-02	.2071-03	.1713-03	.2071-03	.1260	1.073	536.6
133	190.00	.50000	73.000	.4700-02	.3900-02	.4700-02	.1413-03	.1169-03	.1413-03	.8600-01	.7320	536.7
133	190.00	.60100	74.000	.5400-02	.4400-02	.5400-02	.1604-03	.1325-03	.1604-03	.9800-01	.8040	536.4
133	190.00	.70100	75.000	.4300-02	.3500-02	.4300-02	.1274-03	.1054-03	.1274-03	.7800-01	.6200	535.5

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AEDC VKF V41B-57A (OH-49B) COLLATION (DECK

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OH-49B (AEDC V41B-57A) OPB TER FUSELAGE

(RV1808)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 45.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST COND IONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PC PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
106	7.980	1.099	45.09	.0000	180.0	429.1	.4500-01	1291.	94.00	1.991	3790.	.3989-04
107	7.980	2.021	45.10	.0000	180.0	433.4	.4500-01	1290.	93.90	2.011	3789.	.4032-04
108	7.980	2.010	45.10	.0000	180.0	431.4	.4500-01	1290.	93.90	2.002	3790.	.4012-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	ST R	FP
106	.7565-07	.3461-01	0.0175	
107	.7558-07	.3478-01	.2884-01	
108	.7552-07	.3470-01	.2876-01	

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(1970) BTU/ R FT2SEC	H(170) BTU/ R FT2SEC	H(170) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
106	.0000	.0000	1.0000	.5070	.4172	.4627	.1755-01	.1444-01	.1601-01	10.52	59.07	562.0
106	.0000	.5000-02	2.0000	.6646	.5436	.5444	.2300-01	.1881-01	.1634-01	13.33	91.09	581.9
106	.0000	.1000-01	3.0000	.6259	.5125	.5151	.2166-01	.1774-01	.1783-01	12.63	83.82	578.5
106	.0000	.2000-01	4.0000	.4454	.3555	.3763	.1541-01	.1269-01	.1302-01	9.254	51.10	561.2
106	.0000	.3000-01	5.0000	.3520	.2901	.3018	.1218-01	.1004-01	.1045-01	7.367	40.76	557.0
106	.0000	.4000-01	6.0000	.2938	.2424	.2545	.1017-01	.8389-02	.8813-02	6.187	34.30	553.1
106	.0000	.5000-01	7.0000	.2391	.2459	.2695	.1035-01	.6511-02	.9017-02	6.180	41.29	564.6
106	.0000	.6000-01	8.0000	.2362	.2433	.2597	.1025-01	.6439-02	.8990-02	6.162	38.90	560.5
106	.0000	.7000-01	9.0000	.2683	.2194	.2352	.9234-02	.7593-02	.8140-02	5.515	38.01	564.3
106	.0000	.8000-01	10.0000	.2184	.1799	.1936	.7559-02	.6223-02	.6700-02	4.549	31.42	559.6
106	.0000	.9000-01	11.0000	.2107	.1737	.1875	.7231-02	.6011-02	.6490-02	4.420	27.97	555.4
106	.0000	.1000-03	12.0000	.1973	.1577	.1702	.6830-02	.5630-02	.6100-02	4.137	24.76	555.9
106	.0000	.1200	14.0000	.1937	.1574	.1682	.6000-02	.5447-02	.5836-02	4.024	22.32	551.9
106	.0000	.1300	15.0000	.1789	.1475	.1608	.6191-02	.5105-02	.5561-02	3.754	21.89	555.2
106	.0000	.1400	16.0000	.1507	.1326	.1447	.5563-02	.4589-02	.5007-02	3.381	21.41	553.9
106	.0000	.1500	18.0000	.1650	.1358	.1496	.5744-02	.4735-02	.5178-02	3.477	21.38	556.3
106	.0000	.1600	19.0000	.1705	.1405	.1539	.5905-02	.4655-02	.5328-02	3.567	22.55	557.5

AEDC VKF V418-57A (OH-498) COLLATION DECK  
OH-498 (AEDC V418-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(OTO) BTU/ R FT2SEC	H(OTO) BTU/ R FT2SEC	H(OTW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
105	00000	19000	20.000	.1718	.1416	.1552	.5948-02	.4900-02	.5370-02	3.591	22.70	557.9
105	00000	19000	21.000	.1725	.1422	.1560	.5971-02	.4923-02	.5400-02	3.622	22.92	555.0
105	00000	19000	22.000	.1621	.1335	.1467	.5610-02	.4622-02	.5077-02	3.388	21.42	557.6
105	00000	22500	23.000	.1513	.1247	.1373	.5235-02	.4316-02	.4751-02	3.171	20.06	555.9
105	00000	25000	801.00	.1455	.1199	.1322	.5034-02	.4149-02	.4576-02	3.046	19.27	556.5
105	00000	802.00	802.00	.1351	.1113	.1228	.4677-02	.3853-02	.4250-02	2.824	17.86	557.6
105	00000	803.00	803.00	.1440	.1165	.1307	.4983-02	.4101-02	.4535-02	2.988	18.65	552.0
105	00000	804.00	804.00	.1347	.1108	.1223	.4663-02	.3835-02	.4233-02	2.789	18.10	563.4
105	00000	805.00	805.00	.1218	.1001	.1105	.4217-02	.3460-02	.3827-02	2.513	16.78	565.6
105	00000	806.00	806.00	.1112	.9130-01	.1003	.3849-02	.3161-02	.3492-02	2.281	15.68	569.1
105	00000	807.00	807.00	.1075	.8220-01	.9750-01	.3721-02	.3052-02	.3374-02	2.191	16.04	572.7
105	00000	808.00	808.00	.9910-01	.8130-01	.8980-01	.3430-02	.2813-02	.3109-02	2.017	14.76	573.4
105	00000	809.00	809.00	.9930-01	.8160-01	.9050-01	.3457-02	.2832-02	.3132-02	2.221	14.76	576.9
105	00000	810.00	810.00	.1124	.9230-01	.1018	.3689-02	.3185-02	.3533-02	2.271	17.15	577.7
105	00000	811.00	811.00	.1372	.1124	.1243	.4750-02	.3889-02	.4302-02	2.769	20.21	578.5
105	00000	812.00	812.00	.1612	.1319	.1460	.5579-02	.4566-02	.5052-02	3.246	23.68	579.7
105	00000	813.00	813.00	.1768	.1446	.1618	.6118-02	.5006-02	.5533-02	3.554	26.81	590.6
105	00000	814.00	814.00	.1909	.1564	.1752	.6609-02	.5412-02	.6033-02	3.551	27.29	577.3
105	00000	815.00	815.00	.1730	.1418	.1532	.5999-02	.4509-02	.5111-02	3.516	28.57	574.5
105	00000	816.00	816.00	.1879	.1538	.1732	.6502-02	.5324-02	.5935-02	3.792	30.76	578.3
105	00000	817.00	817.00	.2158	.1764	.1994	.7470-02	.6106-02	.6902-02	4.317	34.52	583.6
105	00000	818.00	818.00	.1600	.1317	.1487	.5539-02	.4559-02	.5148-02	3.327	24.50	580.8
105	00000	819.00	819.00	.1516	.1249	.1409	.5246-02	.4322-02	.4878-02	3.168	23.36	557.8
105	00000	820.00	820.00	.1529	.1258	.1421	.5293-02	.4355-02	.4919-02	3.171	25.00	562.5
105	00000	821.00	821.00	.1389	.1143	.1291	.4808-02	.3955-02	.4468-02	2.878	23.96	563.1
105	00000	822.00	822.00	.5500-02	.4500-02	.5500-02	.1839-03	.1566-03	.1889-03	1.180	1.082	535.2
105	00000	823.00	823.00	.8000-02	.6500-02	.8000-02	.2760-03	.2291-03	.2760-03	1.740	1.209	531.9
105	00000	824.00	824.00	.9200-02	.7600-02	.9200-02	.3166-03	.2642-03	.3166-03	2.000	2.642	534.6
105	00000	825.00	825.00	.1291	.1059	.1171	.4467-02	.3667-02	.4052-02	2.642	20.75	570.0
105	00000	826.00	826.00	.1174	.9630-01	.1064	.4054-02	.3332-02	.3684-02	2.388	18.71	574.0
105	00000	827.00	827.00	.7979-01	.6530-01	.7220-01	.2757-02	.2259-02	.2499-02	1.613	14.14	576.6
105	00000	828.00	828.00	.1725	.1413	.1583	.4055-02	.3319-02	.3672-02	2.362	17.24	579.0
105	00000	829.00	829.00	.1594	.1335	.1444	.5518-02	.4518-02	.4933-02	3.216	23.47	578.8
105	00000	830.00	830.00	.2705	.2233	.2706	.5971-02	.4892-02	.5493-02	3.493	27.34	576.6
105	00000	831.00	831.00	.1890	.1550	.1690	.6573-02	.5427-02	.6173-02	4.015	25.49	549.7
105	00000	832.00	832.00	.1709	.1402	.1709	.5917-02	.4851-02	.5517-02	3.475	25.42	574.2
105	00000	833.00	833.00	.1959	.1613	.1969	.6815-02	.5584-02	.6815-02	3.993	29.18	575.7
105	00000	834.00	834.00	.2038	.1671	.2038	.7053-02	.5784-02	.7053-02	4.149	30.36	573.3
105	00000	835.00	835.00	.2293	.1898	.2293	.7974-02	.6601-02	.7974-02	4.942	27.57	540.8
105	00000	836.00	836.00	.1370-01	.1130-01	.1370-01	.4729-03	.3924-03	.4729-03	2.970	1.851	532.7
105	00000	837.00	837.00	.2832	.2335	.2832	.9349-02	.8126-02	.9349-02	5.989	37.95	552.4
105	00000	838.00	838.00	.2006	.1653	.2006	.6977-02	.5748-02	.6977-02	4.208	37.25	557.5

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



(RV1808)

AEDC VKF V41B-57A (OH-498) COLLATION DECK  
C4-498 (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

ROW NUMBER	*ETA	X/L	T/C NO	H/HREF R=0.9	H/HREF P=1.0	H/HREF (TAN)	H(GTO) BTU/R FT2SEC	H(UTO) BTU/R FT2SEC	H(UTAW) BTU/R FT2SEC	QDOT BTU/R FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
136	30.000	.92500	970.00	.1632	.1342	.1632	.5648-02	.4645-02	.5648-02	3.374	24.80	564.2
137	30.000	.95000	974.00	.2027	.1653	.2027	.7014-02	.5756-02	.7014-02	4.142	30.34	571.1
138	30.000	.97500	979.00	.1179	.9740-01	.1179	.4081-02	.3373-02	.4081-02	2.508	18.50	547.0
139	31.500	.20000	108.00	.1110	.1162	.1410	.4903-02	.4041-02	.4903-02	2.986	29.86	555.6
140	32.000	.40000	631.00	.1483	.1219	.1346	.5132-02	.4221-02	.4659-02	3.086	21.13	564.2
141	32.000	.50000	831.00	.1257	.1031	.1140	.4351-02	.3569-02	.3945-02	2.584	18.17	572.3
142	32.000	.60000	833.00	.1104	.9040-01	.1104	.3921-02	.3130-02	.3462-02	2.233	14.83	577.2
143	32.000	.70000	834.00	.9910-01	.8030-01	.5640-01	.3397-02	.2779-02	.3075-02	1.970	14.86	581.6
144	32.000	.80000	835.00	.1228	.1039	.1148	.4367-02	.3594-02	.3975-02	2.565	18.13	577.0
145	32.000	.90000	836.00	.1649	.1353	.1514	.5703-02	.4682-02	.5241-02	3.358	24.58	573.3
146	32.000	.95000	837.00	.1878	.1541	.1733	.6498-02	.5333-02	.5999-02	3.837	29.08	571.1
147	32.000	.97500	838.00	.1537	.1637	.1847	.6911-02	.5666-02	.6394-02	4.057	31.79	574.5
148	32.000	1.0150	839.00	.1554	.1278	.1331	.5392-02	.4423-02	.4815-02	3.206	25.69	565.6
149	32.000	1.0300	840.00	.1519	.1251	.1351	.5259-02	.4323-02	.4711-02	3.164	24.54	559.7
150	32.000	1.0450	841.00	.1563	.1287	.1300	.5409-02	.4453-02	.4946-02	3.282	24.78	560.4
151	32.000	1.0600	842.00	.1336	.1101	.1197	.4623-02	.3810-02	.4144-02	2.797	22.93	556.6
152	35.000	.50000-01	115.00	.1171	.9710-01	.1171	.4073-02	.3376-02	.4073-02	2.543	16.25	536.3
153	35.000	.20000	110.00	.1479	.1218	.1479	.5143-02	.4235-02	.5143-02	3.095	31.12	558.7
154	35.000	.10000+00	115.00	.1053	.8720-01	.1053	.3562-02	.3033-02	.3662-02	2.277	14.54	538.6
155	39.000	.76000-01	121.00	.6730-01	.5580-01	.6730-01	.2341-02	.1941-02	.2341-02	1.467	9.390	533.7
156	40.000	.15000	111.00	.2217	.1827	.2217	.7712-02	.6353-02	.7712-02	4.649	34.29	557.7
157	40.000	.20000	112.00	.1369	.1143	.1369	.4926-02	.3974-02	.4826-02	2.901	32.07	559.5
158	42.500	.50000-01	12.00	.8170-01	.6770-01	.8170-01	.2641-02	.2355-02	.2641-02	1.777	12.05	535.1
159	45.000	.15000	117.00	.6300-01	.7370-01	.8900-01	.3095-02	.2564-02	.3095-02	1.935	11.32	538.5
160	45.000	.92500	953.00	.4160-01	.3450-01	.4160-01	.1440-02	.1193-02	.1440-02	9.000	6.714	536.0
161	45.000	.95000	976.00	.2400-02	.2000-02	.2400-02	.8292-04	.6844-04	.8292-04	.5200-01	.3910	530.4
162	51.000	.20000	118.00	.4700-01	.3930-01	.4700-01	.1633-02	.1353-02	.1633-02	1.019	6.509	536.8
163	51.000	.50000-01	131.00	.1790-01	.1430-01	.1790-01	.6220-03	.5165-03	.6220-03	.3930	4.348	529.1
164	57.500	.20000	139.00	.2220-01	.2220-01	.2690-01	.9314-03	.7222-03	.9314-03	.5830	4.348	534.9
165	65.000	.97500	975.00	.5000-03	.5000-03	.6000-03	.2115-04	.1756-04	.2115-04	.1300-01	.1000+00	529.6
166	65.000	.40100	135.00	.6510-01	.5000-03	.6000-03	.2371-04	.1720-04	.2371-04	.1300-01	.9800-01	529.6
167	105.000	.50100	136.00	.3070-01	.2540-01	.3070-01	.1066-02	.8837-03	.1066-02	.6680	5.328	535.6
168	105.000	.60100	137.00	.3070-01	.4900-02	.5900-02	.2099-03	.1708-03	.2099-03	.1290	1.033	533.5
169	105.000	.70100	138.00	.3070-01	.1800-02	.2200-02	.5837-04	.4582-04	.5837-04	.3700-01	.2960	533.0
170	105.000	.80100	139.00	.2230-02	.1800-02	.2230-02	.5837-04	.4582-04	.5837-04	.4800-01	.3860	531.2
171	105.000	.90100	140.00	.1800-02	.1800-02	.1800-02	.2087-03	.1658-03	.2087-03	.2310	1.850	533.8
172	105.000	.95100	141.00	.6000-03	.6000-03	.6000-03	.3083-03	.2555-03	.3083-03	.1340	1.553	533.6
173	105.000	.97500	142.00	.7000-02	.7000-02	.7000-02	.7287-04	.6047-04	.7287-04	.4500-01	.3670	531.8
174	105.000	.99000	143.00	.3000-02	.3000-02	.3000-02	.1283-03	.1074-03	.1283-03	.1200-01	.4960	528.6
175	105.000	.99500	144.00	.3000-02	.3000-02	.3000-02	.1186-03	.9350-03	.1186-03	.7100-01	.5900	528.1
176	105.000	.99900	145.00	.3000-02	.3000-02	.3000-02	.1186-03	.1231-03	.1186-03	.9400-01	.7770	528.2

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1808)

OH-49B (AEDC V41B-57A) OFBITER FUSELAGE

ROW NUMBER	THETA	X/L	T/C NO	H/HREF P=0.9	H/HREF R=1.0	H/HREF (TAL)	H(9TO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(11A) BTU/ R F12SEC	QDOT BTU/ R F12SEC	DTWDT DEG. R /SEC	TW DEG. R
107	120.00	.66200	29.00	.5400-02	.4500-02	.5400-02	.1868-03	.1552-03	.1868-03	.1180	.8690	527.6
107	130.00	.63500	23.00	.2800-02	.2400-02	.2800-02	.9942-04	.8176-04	.9842-04	.6200-01	.5000	527.7
107	130.00	.62300	25.00	.3300-02	.3300-02	.3900-02	.1368-03	.1137-03	.1368-03	.8700-01	.6750	527.3
107	130.00	.66200	23.00	.4500-02	.3700-02	.4500-02	.1549-03	.1287-03	.1549-03	.9600-01	.8140	527.1
107	140.00	.40100	142.00	.1400-02	.1100-02	.1400-02	.4768-04	.3963-04	.4768-04	.3200-01	.2350	528.6
107	135.00	.50100	143.00	.2200-02	.1900-02	.2200-02	.7780-04	.6461-04	.7780-04	.4900-01	.4070	528.9
107	135.00	.50100	143.00	.2200-02	.1900-02	.2200-02	.1652-03	.1380-03	.1652-03	.1050	.8170	529.5
107	135.00	.50100	143.00	.2200-02	.1900-02	.2200-02	.7088-04	.5866-04	.7088-04	.4500-01	.3590	529.1
107	140.00	.16000	85.000	.1140-01	.9500-02	.1140-01	.3978-03	.3303-03	.3978-03	.2510	1.945	529.0
107	140.00	.16000	87.000	.6800-02	.5500-02	.6800-02	.2350-03	.1951-03	.2350-03	.1480	1.147	529.8
107	145.00	.15000	259.00	.2700-02	.2300-02	.2700-02	.9430-04	.7835-04	.9430-04	.5000-01	.4660	527.1
108	145.00	.62800	260.00	.7300-02	.6500-02	.7300-02	.2758-03	.2289-03	.2758-03	.1740	1.318	528.3
108	145.00	.65200	261.00	.4800-02	.4000-02	.4800-02	.1657-03	.1377-03	.1657-03	.1050	.8720	526.8
107	150.00	.15000	66.000	.1130-01	.9400-02	.1130-01	.3943-03	.3274-03	.3943-03	.2490	1.859	530.1
107	150.00	.15000	84.000	.1710-01	.1420-01	.1710-01	.5934-03	.4926-03	.5934-03	.3740	2.785	530.4
107	150.00	.15000	82.000	.4000-03	.3000-03	.4000-03	.1378-04	.1143-04	.1378-04	.9000-02	.5500-01	533.3
107	150.00	.15000	60.000	.1400-01	.1170-01	.1400-01	.4888-03	.4057-03	.4888-03	.3080	2.304	530.1
107	155.00	.18000	83.000	.3000-03	.2000-03	.3000-03	.9194-05	.7627-05	.9194-05	.5000-02	.4300-01	533.0
107	160.00	.15000	77.000	.1210-01	.1000-01	.1210-01	.4208-03	.3492-03	.4208-03	.2650	2.127	529.7
107	175.00	.15000	81.000	.4390-01	.4140-01	.4390-01	.1735-02	.1439-02	.1735-02	1.087	7.849	534.1
107	175.00	.16500	79.000	.2500-01	.2070-01	.2500-01	.8688-03	.7209-03	.8688-03	.5470	4.065	531.4
107	175.00	.17500	78.000	.3070-01	.2340-01	.3070-01	.1067-02	.8851-03	.1067-02	.6710	4.850	531.7
105	180.00	.10000-01	59.000	.7633-01	.6350-01	.7633-01	.2657-02	.2197-02	.2657-02	1.641	12.18	544.0
105	180.00	.2600-01	60.000	.1970-01	.1630-01	.1970-01	.5819-03	.5648-03	.5819-03	.4240	3.058	539.2
105	180.00	.5000-01	61.000	.1210-01	.1010-01	.1210-01	.4200-03	.3480-03	.4200-03	.2620	1.673	537.9
105	180.00	.75000-01	62.000	.1860-01	.1540-01	.1860-01	.6423-03	.5323-03	.6423-03	.4010	2.562	537.1
105	180.00	.10000-00	63.000	.2500-01	.2070-01	.2500-01	.8662-03	.7178-03	.8662-03	.5410	3.556	537.2
105	180.00	.12500	64.000	.2650-01	.2210-01	.2650-01	.9219-03	.7641-03	.9219-03	.5760	4.026	536.6
105	180.00	.15000	65.000	.3070-01	.2540-01	.3070-01	.1062-02	.8805-03	.1062-02	.6650	4.647	535.7
105	180.00	.15000	65.000	.8310-01	.6880-01	.8310-01	.2877-02	.2382-02	.2877-02	1.788	9.978	540.1
105	180.00	.15000	67.000	.1010	.8380-01	.1010	.3497-02	.2895-02	.3497-02	2.171	12.11	540.7
105	180.00	.20000	63.000	.2040-01	.1690-01	.2040-01	.7064-03	.5860-03	.7064-03	.4440	2.763	533.1
105	180.00	.20100	72.000	.7300-02	.6100-02	.7300-02	.2535-03	.2105-03	.2535-03	.1600	1.357	531.1
105	180.00	.40000	73.000	.4500-02	.4000-02	.4500-02	.1666-03	.1383-03	.1666-03	.1050	.8990	530.6
105	180.00	.60100	74.000	.4600-02	.3900-02	.4600-02	.1593-03	.1322-03	.1593-03	.1010	.8320	530.2
105	180.00	.75100	75.000	.4400-02	.3700-02	.4400-02	.1526-03	.1268-03	.1526-03	.9600-01	.7740	529.4

PARAMETRIC DATA

ALPHA = 45.00 BETA = .0000 ELEVTR = .0000 SPDRBK = .0000  
BOFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

PUN NUMBER	MACH	PN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
82	7.990	2.509	45.10	.0000	180.0	548.2	.5700-01	1303.	94.60	2.530	3808.	.5019-04
83	7.990	2.497	45.11	.0000	180.0	546.6	.5600-01	1304.	94.70	2.522	3811.	.4998-04
84	7.990	2.495	45.13	.0000	180.0	547.3	.5700-01	1306.	94.90	2.526	3813.	.4999-04

\*\*\*TEST DATA\*\*\*

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/R FT2SEC	H(10) BTU/R FT2SEC	H(1AW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
82	.00000	.00000	1-0000	.5050	.4155	.4608	.1973-01	.1624-01	.1801-01	11.94	65.70	567.6
82	.00000	.50000-02	2-0000	.6489	.5301	.5309	.2536-01	.2071-01	.2074-01	14.74	100.2	591.4
82	.00000	.10000-01	3-0000	.6215	.5023	.5108	.2428-01	.1926-01	.1926-01	14.21	93.85	587.5
82	.00000	.30000-01	4-0000	.4478	.3685	.3783	.1750-01	.1440-01	.1478-01	10.60	58.34	566.9
82	.00000	.50000-01	5-0000	.3523	.2904	.3021	.1377-01	.1135-01	.1181-01	8.410	46.42	561.7
82	.00000	.70000-01	6-0000	.2523	.2423	.2545	.1147-01	.9457-02	.9944-02	7.056	39.03	557.5
82	.00000	.90000-01	7-0000	.2235	.2463	.2640	.1171-01	.9655-02	.1020-01	7.052	46.98	570.3
82	.00000	.10000-01	8-0000	.3115	.2463	.2640	.1178-01	.9702-02	.1033-01	7.152	45.03	565.6
82	.00000	.30000-01	9-0000	.2684	.2237	.2345	.1049-01	.8624-02	.9246-02	6.321	43.44	569.9
82	.00000	.50000-01	10-0000	.2134	.1925	.1925	.8375-02	.7028-02	.7556-02	5.187	35.74	564.7
82	.00000	.70000-01	11-0000	.2073	.1793	.1845	.8100-02	.6891-02	.7211-02	4.984	31.35	559.7
82	.00000	.90000-01	12-0000	.1938	.1638	.1731	.7572-02	.6244-02	.6454-02	4.639	27.70	560.0
82	.00000	.10000	1-0000	.2151	.1777	.1932	.6437-02	.5942-02	.6350-02	5.191	22.75	555.0
82	.00000	.30000	2-0000	.1740	.1435	.1564	.6793-02	.5608-02	.6111-02	4.173	24.28	558.8
82	.00000	.50000	3-0000	.1642	.1355	.1478	.6414-02	.5293-02	.5774-02	3.944	24.94	557.6
82	.00000	.70000	4-0000	.1593	.1375	.1503	.6516-02	.5373-02	.5874-02	3.983	24.48	560.4
82	.00000	.90000	5-0000	.1652	.1351	.1490	.6455-02	.5319-02	.5824-02	3.940	24.85	562.1

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AECG VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AECG V41B-57A) ORBITER FUSELAGE

FW NUMBER	WETA	X/L	W/C NO	H/REF P=0.9	H/REF R=1.0	H/REF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TW DEG. R
82	00000	19000	20.000	.1701	.1402	.1536	.6647-02	.5477-02	.6001-02	4.053	25.56	562.7
82	00000	19000	21.000	.1616	.1333	.1461	.6314-02	.5207-02	.5711-02	3.870	24.44	559.6
82	00000	20000	22.000	.1614	.1330	.1461	.6308-02	.5198-02	.5709-02	3.851	24.29	562.0
82	00000	22500	23.000	.1509	.1244	.1370	.5997-02	.4662-02	.5352-02	3.513	22.79	560.4
82	00000	25000	24.000	.1469	.1211	.1335	.5733-02	.4731-02	.5216-02	3.559	22.14	561.1
82	00000	30000	262.00	.1368	.1127	.1243	.5344-02	.4404-02	.4855-02	3.260	20.56	562.6
82	00000	35000	303.00	.1436	.1181	.1304	.5611-02	.4616-02	.5035-02	3.392	21.34	568.0
82	00000	40000	324.00	.1368	.1125	.1242	.5344-02	.4355-02	.4852-02	3.223	20.85	569.4
82	00000	45000	335.00	.1241	.1019	.1126	.4949-02	.3934-02	.4399-02	2.913	19.39	571.7
82	00000	50000	306.00	.1118	.9180-01	.1014	.4358-02	.3587-02	.3933-02	2.615	17.94	573.9
82	00000	55000	307.00	.1107	.9080-01	.1013	.4324-02	.3546-02	.3900-02	2.569	18.75	578.5
82	00000	60000	309.00	.1074	.8800-01	.1013	.4155-02	.3439-02	.3822-02	2.486	18.13	579.9
82	00000	65000	309.00	.1394	.1141	.1262	.5449-02	.4457-02	.4933-02	3.192	23.20	586.7
82	00000	70000	310.00	.2087	.1702	.1866	.6155-02	.5522-02	.6071-02	4.702	35.20	596.0
82	00000	75000	311.00	.2085	.2349	.2605	.6127-01	.5479-02	.6071-02	6.437	46.45	601.6
82	00000	80000	312.00	.3297	.2622	.2976	.1289-01	.1048-01	.1163-01	7.318	52.73	604.5
82	00000	85000	313.00	.3299	.2683	.3011	.1289-01	.1049-01	.1176-01	7.318	54.54	604.9
82	00000	90000	314.00	.3207	.2613	.2935	.1253-01	.1021-01	.1147-01	7.180	50.19	599.5
82	00000	92500	315.00	.2822	.2303	.2552	.1103-01	.8999-02	.1013-01	6.375	51.30	594.4
82	00000	95000	316.00	.2680	.2346	.2650	.1125-01	.9168-02	.1035-01	6.439	51.66	600.4
82	00000	97500	317.00	.3121	.2537	.2877	.1220-01	.9343-02	.1035-01	6.899	55.18	606.8
82	00000	1.0150	318.00	.2044	.1679	.1869	.7537-02	.6559-02	.7417-02	4.780	34.97	574.1
82	00000	1.0300	319.00	.1905	.1565	.1769	.7442-02	.6117-02	.6913-02	4.476	32.79	571.2
82	00000	1.0500	320.00	.1752	.1478	.1627	.7272-02	.6117-02	.6913-02	4.593	33.73	576.9
82	00000	1.0600	321.00	.1752	.1478	.1627	.6947-02	.5618-02	.6356-02	4.079	33.73	576.9
82	00000	1.0700	322.00	.6200-02	.5200-02	.6200-02	.2440-03	.2026-03	.2440-03	1.550	94.00	535.8
82	00000	1.0800	323.00	.7500-02	.6300-02	.7500-02	.2947-03	.2449-03	.2947-03	1.850	1.175	532.2
82	00000	1.0900	324.00	.1000-01	.8300-02	.1000-01	.3897-03	.3237-03	.3897-03	2.490	1.506	534.0
82	00000	1.1000	325.00	.1269	.1041	.1151	.4560-02	.4070-02	.4497-02	2.954	23.12	576.9
82	00000	1.1100	326.00	.1189	.9740-01	.1077	.4647-02	.3807-02	.4210-02	2.747	21.45	581.4
82	00000	1.1200	327.00	.8570-01	.7100-01	.7850-01	.3387-02	.2774-02	.3069-02	1.997	17.45	583.0
82	00000	1.1300	328.00	.3091	.2514	.2750	.1203-01	.9924-02	.1090-01	6.860	49.43	604.6
82	00000	1.1400	329.00	.3343	.2721	.3019	.1306-01	.1063-01	.1180-01	7.454	53.79	601.9
82	00000	1.1500	330.00	.2813	.2233	.2575	.1099-01	.8959-02	.1006-01	6.310	48.86	598.5
82	00000	1.1600	331.00	.2679	.2212	.2679	.1045-01	.8634-02	.1045-01	6.467	48.86	598.5
82	00000	1.1700	332.00	.1879	.1553	.1879	.7332-02	.6059-02	.7332-02	4.551	28.84	553.3
82	00000	1.1800	333.00	.1956	.1601	.1956	.7644-02	.6257-02	.7644-02	4.495	32.72	564.4
82	00000	1.1900	334.00	.2403	.1963	.2403	.9330-02	.7671-02	.9330-02	5.458	39.59	591.3
82	00000	1.2000	335.00	.2413	.1973	.2413	.9431-02	.7713-02	.9431-02	5.503	39.96	589.0
82	00000	1.2100	336.00	.2297	.1902	.2297	.8965-02	.7424-02	.8965-02	5.635	31.36	545.4
82	00000	1.2200	337.00	.1320-01	.1140-01	.1380-01	.5377-03	.4469-03	.5377-03	3.440	2.140	533.1
82	00000	1.2300	338.00	.2821	.2329	.2821	.1101-01	.9089-02	.1101-01	6.793	42.96	557.0
82	00000	1.2400	339.00	.1992	.1642	.1992	.7776-02	.6410-02	.7776-02	4.759	42.03	561.9

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AEDC VKF V41B-57A (CH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) CREITER FUSELAGE

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P/W NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO BTU/R FT2SEC	H1TO BTU/R FT2SEC	H1TAH BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
82	30.000	.92500	970.00	.1579	.1297	.1579	.6158-02	.5069-02	.6168-02	3.705	27.13	571.9
82	30.000	.95200	974.00	.2129	.1744	.2129	.6319-02	.5816-02	.8319-02	4.916	32.83	581.3
82	30.000	.97500	979.00	.1146	.9470-01	.1146	.4420-02	.3702-02	.4480-02	2.778	20.54	582.5
83	31.500	.20000	108.00	.1359	.1121	.1359	.5305-02	.4376-02	.5305-02	3.259	32.75	559.6
82	32.000	.40000	831.00	.1471	.1209	.1335	.5747-02	.4725-02	.5216-02	3.464	23.81	569.7
82	32.000	.50000	832.00	.1239	.1016	.1123	.4843-02	.3971-02	.4390-02	2.875	20.30	578.9
82	32.000	.60000	833.00	.1133	.9330-01	.1032	.4451-02	.3545-02	.4032-02	2.621	17.35	583.6
82	32.000	.70000	834.00	.1117	.9120-01	.1010	.4355-02	.3554-02	.3949-02	2.528	18.95	583.5
82	32.000	.80000	835.00	.2219	.1811	.2007	.8672-02	.7077-02	.7841-02	5.015	35.15	594.2
82	32.000	.90000	836.00	.2811	.2294	.2575	.1099-01	.8964-02	.1005-01	6.347	45.95	594.8
82	32.000	.95000	837.00	.3321	.2835	.2593	.1036-01	.9006-02	.1014-01	6.413	48.12	590.8
82	32.000	.97500	838.00	.3334	.2865	.2593	.1036-01	.8933-02	.1011-01	6.300	48.81	597.5
82	32.000	1.0150	839.00	.2232	.1927	.1993	.6722-02	.7138-02	.7786-02	5.120	40.63	565.5
82	32.000	1.0300	840.00	.2036	.1671	.1821	.7958-02	.6531-02	.7115-02	4.746	36.50	576.2
82	32.000	1.0450	841.00	.2036	.1695	.1848	.8079-02	.6629-02	.7223-02	4.811	36.36	577.0
82	32.000	1.0600	842.00	.1633	.1342	.1461	.6381-02	.5245-02	.5710-02	3.839	18.30	570.9
83	35.000	.50000-01	115.00	.1160	.9620-01	.1160	.4529-02	.3756-02	.4529-02	2.859	18.30	540.4
83	35.000	.20000	110.00	.1472	.1213	.1472	.5745-02	.4733-02	.5745-02	3.505	35.14	563.9
83	39.000	.10000-00	116.00	.1033	.9570-01	.1033	.4032-02	.3344-02	.4032-02	2.558	16.32	539.4
83	40.000	.76000-01	121.00	.6500-71	.5400-01	.6500-01	.2537-02	.2106-02	.2537-02	1.516	10.32	537.2
83	40.000	.15000	111.00	.2269	.1670	.2269	.8355-02	.7300-02	.8855-02	5.422	39.91	561.6
83	40.000	.20000	112.00	.1385	.1141	.1385	.5406-02	.4453-02	.5406-02	3.298	13.61	563.8
83	42.500	.50000-01	127.00	.8110-01	.6730-01	.8110-01	.3167-02	.2627-02	.3167-02	2.010	13.61	540.1
83	45.000	.15000	117.00	.9160-01	.7500-01	.9160-01	.3575-02	.2965-02	.3575-02	2.256	13.31	540.1
82	45.000	.92500	983.00	.4360-01	.3610-01	.4360-01	.1653-02	.1410-02	.1693-02	1.077	8.020	538.8
82	45.000	.95000	973.00	.3000-02	.2500-02	.3000-02	.1159-03	.9621-04	.1158-03	.7400-01	.5540	532.2
82	45.000	.97500	978.00	.2200-02	.1800-02	.2200-02	.8510-04	.7073-04	.8510-04	.5500-01	.4080	531.3
83	51.000	.20000	118.00	.4650-01	.3650-01	.4650-01	.1815-02	.1505-02	.1815-02	1.155	7.376	537.5
83	60.000	.50000-01	121.00	.1770-01	.1470-01	.1770-01	.6832-03	.5727-03	.6832-03	.4420	2.004	532.2
83	61.500	.20000	123.00	.2700-01	.2240-01	.2700-01	.1053-02	.8741-03	.1053-02	.6720	5.011	535.7
82	65.000	.97500	977.00	.7000-03	.6000-03	.7000-03	.2616-04	.2174-04	.2616-04	.1700-01	.1250	531.3
82	65.000	.97500	978.00	.9000-03	.7000-03	.9000-03	.3366-04	.2798-04	.3366-04	.2200-01	.1610	531.2
83	100.000	.40100	125.00	.2330-01	.1940-01	.2330-01	.9103-03	.7560-03	.9103-03	.5820	4.513	534.9
83	100.000	.50100	126.00	.3440-01	.2880-01	.3440-01	.1343-02	.1115-02	.1343-02	.8540	6.814	538.5
83	100.000	.60100	127.00	.5000-02	.4000-02	.5000-02	.2345-03	.1948-03	.2345-03	.1500	1.199	535.0
83	100.000	.70100	128.00	.5000-02	.4000-02	.5000-02	.7455-04	.6216-04	.7455-04	.4800-01	.3820	535.1
83	100.000	.80100	129.00	.5000-02	.4000-02	.5000-02	.6379-04	.4979-04	.6379-04	.4500-01	.3580	533.1
83	100.000	.90100	130.00	.1270-01	.1050-01	.1270-01	.4952-03	.4111-03	.4952-03	.3160	2.527	535.7
83	100.000	.95100	131.00	.1560-01	.1300-01	.1560-01	.4154-03	.3450-03	.4154-03	.2650	2.121	535.4
83	100.000	1.00000-00	132.00	.4400-02	.3600-02	.4400-02	.1412-03	.1107-03	.1412-03	.1090	.8710	534.1
83	120.000	.60500	127.00	.3400-02	.2800-02	.3400-02	.1331-03	.1107-03	.1331-03	.8600-01	.5190	530.6
83	120.000	.65500	128.00	.3400-02	.2800-02	.3400-02	.1230-03	.1023-03	.1230-03	.7900-01	.6550	530.8
83	120.000	.70500	129.00	.4300-02	.3600-02	.4300-02	.1675-03	.1393-03	.1675-03	.1080	.8920	530.7

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AEDC VKF V41B-57A (OH-498) COLLATION CHECK

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O +9B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1808)

ITEM NUMBER	ETA	X/L	T/C NO	H/REF P=0.9	H/REF R=1.0	H/REF (TAJ)	H1GTO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAJ BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
83	120.00	.85200	249.00	.6200-02	.5100-02	.6200-02	.2404-03	.2000-03	.2404-03	.1550	1.137	529.5
83	120.00	.80500	253.00	.2700-02	.2200-02	.2700-02	.1039-03	.8633-04	.1039-03	.6700-01	.5370	530.3
83	130.00	.62200	254.00	.4000-02	.3400-02	.4000-02	.1573-03	.1308-03	.1573-03	.1010	.7880	529.8
83	130.00	.86200	255.00	.4900-02	.4100-02	.4900-02	.1919-03	.1586-03	.1919-03	.1240	1.026	528.9
83	135.00	.40100	142.00	.1300-02	.1100-02	.1300-02	.5217-04	.4339-04	.5217-04	.3400-01	.2610	529.8
83	135.00	.50100	143.00	.2000-02	.1700-02	.2000-02	.7797-04	.6463-04	.7797-04	.5000-01	.4160	530.3
83	135.00	.60100	144.00	.5800-02	.4500-02	.5800-02	.2222-03	.1889-03	.2222-03	.1450	1.135	531.5
83	135.00	.70100	145.00	.6500-02	.5000-02	.6500-02	.5227-04	.3927-04	.5227-04	.6400-01	.5120	531.1
83	140.00	.18000	55.000	.6300-02	.5300-02	.6300-02	.2465-03	.2050-03	.2465-03	.1590	1.129	529.5
83	140.00	.19000	57.000	.6400-02	.5400-02	.6400-02	.2512-03	.2088-03	.2512-03	.1610	1.149	531.1
83	145.00	.80000	259.00	.2600-02	.2200-02	.2600-02	.1015-03	.8441-04	.1015-03	.6500-01	.5030	529.7
83	145.00	.86000	261.00	.4700-02	.3900-02	.4700-02	.1524-03	.1517-03	.1824-03	.1180	.9760	529.4
83	150.00	.12000	55.000	.1000-01	.9100-02	.1000-01	.4550-03	.3500-03	.4250-03	.2730	2.043	532.1
83	150.00	.13000	56.000	.1100-01	.1420-01	.1100-01	.6154-03	.5538-03	.6664-03	.4270	3.152	532.5
83	150.00	.14000	62.000	.4000-03	.3000-03	.4000-03	.735-04	.1192-04	.1435-04	.9000-02	.6900-01	534.0
83	150.00	.15000	62.000	.5500-01	.1300-01	.1500-01	.6086-03	.5053-03	.6053-03	.3910	2.918	532.3
83	150.00	.16000	77.000	.1210-01	.1010-01	.1210-01	.4734-03	.3934-03	.4734-03	.3030	2.429	532.9
83	150.00	.17000	81.000	.5210-01	.4320-01	.5210-01	.2033-02	.1688-02	.2033-02	1.296	9.353	536.2
83	175.00	.16500	72.000	.2570-01	.2130-01	.2570-01	.1001-02	.8318-03	.1001-02	.6410	4.782	534.1
83	175.00	.17500	78.000	.3170-01	.2530-01	.3170-01	.1235-02	.1026-02	.1235-02	.7900	5.707	534.5
83	180.00	.10000-01	59.000	.7600-01	.6290-01	.7600-01	.6970-02	.2459-02	.2970-02	1.861	13.61	546.0
83	180.00	.11000-01	60.000	.1910-01	.1580-01	.1910-01	.7450-03	.6177-03	.7450-03	.4710	3.390	540.5
83	180.00	.12000-01	61.000	.1290-01	.1070-01	.1290-01	.5023-03	.4166-03	.5023-03	.3180	2.032	538.7
83	180.00	.13000-01	62.000	.1670-01	.1670-01	.1670-01	.7887-03	.6542-03	.7887-03	.5000	3.191	539.0
83	180.00	.14000-01	63.000	.2650-01	.2200-01	.2650-01	.1037-02	.8603-03	.1037-02	.6580	4.325	538.0
83	180.00	.15000-01	64.000	.2720-01	.2260-01	.2720-01	.1063-02	.8320-03	.1063-02	.6750	4.714	537.6
83	180.00	.16000	65.000	.3100-01	.2570-01	.3100-01	.1210-02	.1004-02	.1210-02	.7690	5.372	537.2
83	180.00	.17000	66.000	.8540-01	.7070-01	.8540-01	.3335-02	.2764-02	.3335-02	2.101	11.71	542.0
83	180.00	.18000	67.000	.1079	.6940-01	.1079	.4215-02	.3432-02	.4215-02	2.651	14.77	542.0
83	180.00	.19000	69.000	.2000-01	.1660-01	.2000-01	.7831-03	.6504-03	.7831-03	.5000	3.109	534.2
83	180.00	.20000	72.000	.6300-02	.5700-02	.6300-02	.2635-03	.2239-03	.2635-03	.1730	1.476	531.9
83	180.00	.21000	73.000	.5200-02	.4400-02	.5200-02	.2045-03	.1700-03	.2045-03	.1310	1.122	531.1
83	180.00	.22000	74.000	.4500-02	.3700-02	.4500-02	.1782-03	.1464-03	.1782-03	.1130	.9360	531.0
83	180.00	.23000	75.000	.4200-02	.3500-02	.4200-02	.1638-03	.1362-03	.1638-03	.1050	.8430	530.7

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1808)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 45.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
EDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
61	7.990	2.932	45.11	.0000	180.0	676.7	.7000-01	1351.	98.10	3.123	3879.	.5973-04
62	7.990	2.961	45.14	.0000	180.0	676.1	.7000-01	1342.	97.50	3.120	3865.	.6010-04
63	7.990	2.968	45.12	.0000	180.0	677.5	.7000-01	1341.	97.40	3.126	3864.	.6025-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR P =
61	.7902-07	.4369-01	0.0175
62	.7847-07	.4362-01	.2368-01
63	.7844-07	.4356-01	.2359-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TM DEG. R
61	.00000	.00000	1.0000	.4969	.4111	.4547	.2171-01	.1796-01	.1986-01	14.05	77.29	569.0
61	.00000	.50000-02	2.0000	.6571	.5397	.5405	.2871-01	.2358-01	.2361-01	17.83	121.0	595.1
61	.00000	.10000-01	3.0000	.6225	.5118	.5143	.2720-01	.2336-01	.2347-01	17.00	112.1	591.2
61	.00000	.20000-01	4.0000	.4416	.3653	.3747	.1929-01	.1596-01	.1637-01	12.49	68.67	569.0
61	.00000	.30000-01	5.0000	.3442	.2851	.2963	.1504-01	.1216-01	.1295-01	9.814	54.12	563.5
61	.00000	.40000-01	6.0000	.2859	.2379	.2495	.1253-01	.1040-01	.1091-01	8.236	45.53	559.0
61	.00000	.50000-01	7.0000	.2543	.2436	.2577	.1288-01	.1086-01	.1155-01	8.500	55.02	574.0
61	.00000	.60000-01	8.0000	.3006	.2486	.2645	.1313-01	.1054-01	.1126-01	8.273	53.44	568.9
61	.00000	.70000-01	9.0000	.2672	.2207	.2363	.1168-01	.0845-02	.1032-01	7.495	51.39	574.2
61	.00000	.80000-01	10.0000	.2146	.1776	.1908	.9378-02	.7759-02	.8338-02	6.073	41.76	568.6
61	.00000	.90000-01	11.0000	.2065	.1711	.1844	.9021-02	.7475-02	.8055-02	5.891	37.14	563.2
61	.00000	.10000-00	12.0000	.1955	.1620	.1751	.853-02	.7077-02	.7552-02	5.572	33.22	563.9
61	.00000	.12000	14.0000	.1677	.1391	.1510	.7326-02	.6076-02	.6536-02	4.813	26.60	559.1
61	.00000	.13000	15.0000	.1733	.1435	.1562	.7572-02	.6274-02	.6824-02	4.945	28.71	563.1
61	.00000	.14000	16.0000	.1618	.1341	.1460	.7069-02	.5858-02	.6378-02	4.625	29.18	561.8
61	.00000	.16000	18.0000	.1690	.1393	.1527	.7383-02	.6114-02	.6572-02	4.805	29.42	565.4
61	.00000	.17000	19.0000	.1581	.1391	.1520	.7343-02	.6078-02	.6541-02	4.765	29.98	567.2





04-63 (AEC V413-57) ORBITER FUSELAGE

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1808)

FUSELAGE

PARAMETRIC DATA

ALPHA = 15.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = 0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 <sup>6</sup> /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PS A	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
43	8.000	3.313	45.11	.0000	180.0	755.4	.7800-01	1341.	97.20	3.480	3864.	.6708-04
44	8.000	3.322	45.10	.0000	180.0	755.5	.7800-01	1340.	97.10	3.485	3862.	.6723-04
45	8.000	3.323	45.10	.0000	180.0	755.7	.7800-01	1340.	97.10	3.486	3863.	.6724-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FP R =
43	.7822-07	.4606-01	0.0175
44	.7816-07	.4609-01	.2230-01
45	.7817-07	.4610-01	.2230-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(TAH) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TH DEG. R
43	.00000	.00000	1.0000	.5005	.4126	.4572	.2306-01	.1900-01	.2106-01	14.49	79.33	578.3
43	.00000	.50000-02	2.0000	.6545	.5352	.5370	.3015-01	.2470-01	.2470-01	18.31	124.0	599.5
43	.00000	.10000-01	3.0000	.6083	.4990	.5014	.2302-01	.2299-01	.2310-01	17.14	112.8	595.1
43	.00000	.30000-01	5.0000	.3488	.2886	.3000	.1607-01	.1328-01	.1382-01	10.32	56.91	564.2
43	.00000	.40000-01	6.0000	.2935	.2432	.2552	.1352-01	.1120-01	.1175-01	8.758	48.41	558.9
43	.00000	.50000-01	7.0000	.2930	.2434	.2576	.1359-01	.1121-01	.1187-01	8.580	57.02	575.4
43	.00000	.60000-01	8.0000	.2935	.2474	.2633	.1380-01	.1140-01	.1213-01	8.784	55.18	570.1
43	.00000	.70000-01	9.0000	.2944	.2181	.2735	.1218-01	.1005-01	.1076-01	7.694	52.65	575.8
43	.00000	.80000-01	10.000	.2174	.1795	.1931	.1001-01	.8271-02	.8894-02	6.380	43.86	569.4
43	.00000	.90000-01	11.000	.2073	.1715	.1849	.9348-02	.7901-02	.8513-02	5.802	38.71	563.5
43	.00000	.10000-00	12.000	.1961	.1622	.1759	.9032-02	.7472-02	.8094-02	5.802	34.58	564.3
43	.00000	.12000	14.000	.1961	.1626	.1768	.9035-02	.7489-02	.8132-02	5.868	32.47	557.2
43	.00000	.13000	15.000	.1776	.1470	.1600	.8182-02	.6770-02	.7353-02	5.262	30.55	563.6
43	.00000	.14000	16.000	.1611	.1333	.1452	.7419-02	.6141-02	.6689-02	4.780	30.15	562.3
43	.00000	.15000	18.000	.1717	.1420	.1550	.7310-02	.6540-02	.7141-02	5.065	31.00	566.3
43	.00000	.16000	20.000	.1638	.1403	.1534	.7222-02	.6454-02	.7053-02	4.991	31.38	568.6
43	.00000	.16000	20.000	.1538	.1369	.1495	.7635-02	.6303-02	.6904-02	4.863	30.55	569.9

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PU# NUMBER	WETA	XVL	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/R FT2SEC	H(10) BTU/R FT2SEC	H(11A) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
43	30000	.19000	21.000	.1657	.1370	.1501	.7633-02	.6312-02	.6913-02	4.889	30.78	566.2
43	30000	.20000	22.000	.1611	.1331	.1450	.7422-02	.6131-02	.6726-02	4.727	29.70	569.8
43	30000	.21000	23.000	.1473	.1217	.1338	.6785-02	.6131-02	.6726-02	4.330	27.22	568.6
43	30000	.25000	301.00	.1435	.1186	.1336	.6513-02	.5462-02	.6017-02	3.965	24.68	572.5
43	30000	.30000	302.00	.1357	.1120	.1234	.6251-02	.5160-02	.5685-02	4.145	25.91	580.0
43	30000	.35000	303.00	.1435	.1183	.1335	.6414-02	.5449-02	.6035-02	4.020	25.84	585.1
43	30000	.40000	304.00	.1213	.1150	.1239	.6435-02	.5238-02	.5845-02	3.473	22.96	585.3
43	30000	.45000	305.00	.1213	.1131	.1131	.5538-02	.4538-02	.5073-02	3.159	21.51	588.5
43	30000	.50000	306.00	.1109	.9110-01	.1036	.5109-02	.4188-02	.4636-02	3.324	24.07	595.2
43	30000	.55000	307.00	.1180	.9880-01	.1070	.5435-02	.4453-02	.4928-02	3.770	27.26	597.7
43	30000	.60000	308.00	.1344	.1101	.1218	.6190-02	.5073-02	.5609-02	5.389	38.72	610.7
43	30000	.65000	309.00	.1253	.1103	.1175	.6043-02	.7292-02	.8177-02	9.118	59.92	624.7
43	30000	.70000	811.00	.3028	.2451	.2732	.1395-01	.1134-01	.1258-01	8.771	69.53	630.2
43	30000	.75000	812.00	.3573	.2955	.3317	.1395-01	.1375-01	.1529-01	10.04	71.37	632.5
43	30000	.80000	813.00	.3736	.3077	.3430	.1749-01	.1417-01	.1575-01	9.657	70.94	634.7
43	30000	.85000	814.00	.3255	.2639	.3230	.1688-01	.1322-01	.1488-01	8.406	64.80	639.2
43	30000	.90000	815.00	.3336	.2870	.3230	.1629-01	.1322-01	.1488-01	8.307	65.89	623.7
43	30000	.95000	816.00	.3125	.2535	.2871	.1455-01	.1158-01	.1306-01	8.282	65.44	631.6
43	30000	.97500	817.00	.3365	.2722	.3036	.1550-01	.1254-01	.1426-01	5.901	42.68	596.9
43	30000	1.0150	818.00	.2101	.1722	.1949	.9616-02	.7932-02	.8978-02	5.947	43.02	595.6
43	30000	1.0300	819.00	.2116	.1735	.1933	.9746-02	.7990-02	.9044-02	6.082	46.91	605.4
43	30000	1.0450	820.00	.2199	.1798	.2038	.1013-01	.8281-02	.9390-02	5.324	43.44	604.1
43	30000	1.0500	821.00	.1919	.1589	.1778	.8855-02	.7227-02	.8191-02	1.950	1.179	538.8
43	30000	1.0600	83.000	.6300-02	.5300-02	.6300-02	.2924-03	.2435-03	.2924-03	2.710	1.678	540.7
43	30000	1.0700	91.000	.6300-02	.7300-02	.8900-02	.4066-03	.3384-03	.4066-03	4.490	2.712	538.5
43	30000	1.0800	90.000	.1460-01	.1220-01	.1460-01	.6735-03	.5608-03	.6735-03	3.628	28.18	592.2
43	30000	1.0900	823.00	.1282	.1052	.1162	.5904-02	.4847-02	.5355-02	3.282	25.41	598.8
43	30000	1.1000	824.00	.1172	.9500-01	.1032	.5398-02	.4423-02	.4891-02	2.948	25.52	602.6
43	30000	1.1100	825.00	.1059	.8673-01	.9533-01	.4880-02	.3994-02	.4419-02	69.00	71.70	630.2
43	30000	1.1200	826.00	.1315	.3438	.3438	.1757-01	.1255-01	.1583-01	8.204	62.61	628.0
43	30000	1.1300	827.00	.3551	.2552	.3231	.1662-01	.1355-01	.1515-01	46.60	46.60	566.1
43	30000	1.1400	828.00	.3777	.2439	.2812	.1417-01	.1151-01	.1253-01	34.38	34.38	563.1
43	30000	1.1500	829.00	.1857	.1536	.1857	.1255-01	.1039-01	.1256-01	5.500	38.08	607.6
43	30000	1.1600	830.00	.1718	.1567	.1919	.8557-02	.7081-02	.8557-02	5.292	38.08	607.6
43	30000	1.1700	831.00	.2507	.2122	.2507	.1155-01	.9408-02	.1201-01	7.039	50.33	620.5
43	30000	1.1800	832.00	.2507	.2042	.2507	.1201-01	.9773-02	.1133-01	6.802	48.70	617.8
43	30000	1.1900	833.00	.1235	.1895	.2266	.1054-01	.8740-02	.1054-01	6.870	38.08	553.7
43	30000	1.2000	834.00	.1200-01	.1200-01	.1200-01	.5546-03	.4616-03	.5546-03	2.687	2.687	541.3
43	30000	1.2100	835.00	.2842	.2348	.2842	.1310-01	.1032-01	.1310-01	8.348	52.49	588.6
43	30000	1.2200	836.00	.2038	.1556	.2038	.9255-02	.7634-02	.9255-02	5.840	51.24	574.8
43	30000	1.2300	837.00	.1598	.1312	.1598	.7353-02	.6042-02	.7353-02	4.525	32.82	591.8

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B08)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9T0) BTU/ R FT2SEC	H(1G) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
43	30.000	.95000	974.00	.2144	.1752	.2144	.9876-02	.8072-02	.9876-02	5.927	42.67	606.6
43	30.500	.97500	979.00	.1448	.1195	.1448	.6672-02	.5508-02	.6672-02	4.233	30.99	572.4
44	31.500	.20000	108.00	.1392	.1149	.1392	.6415-02	.5296-02	.6415-02	4.066	40.60	572.0
43	32.000	.40000	831.00	.1488	.1224	.1351	.6854-02	.5640-02	.6224-02	4.272	29.16	563.5
43	32.000	.50000	832.00	.1265	.1038	.1147	.5831-02	.4781-02	.5285-02	3.560	24.93	596.2
43	32.000	.60000	833.00	.1382	.1114	.1233	.6273-02	.5132-02	.5579-02	3.782	24.79	603.8
43	32.000	.70000	834.00	.1958	.1502	.1777	.9054-02	.7378-02	.8184-02	5.319	39.35	619.9
43	32.000	.80000	835.00	.3420	.2778	.3084	.1575-01	.1279-01	.1421-01	9.137	63.03	626.6
43	32.000	.90000	836.00	.3110	.2729	.2844	.1433-01	.1165-01	.1310-01	8.357	59.67	623.4
43	32.000	.95000	837.00	.3118	.2538	.2863	.1436-01	.1169-01	.1321-01	8.418	62.26	620.7
43	32.000	.97500	838.00	.3125	.2537	.2860	.1440-01	.1168-01	.1326-01	8.305	63.32	630.1
43	32.000	1.01500	839.00	.2475	.2016	.2203	.1140-01	.9285-02	.1015-01	6.715	52.45	617.6
43	32.000	1.03000	840.00	.2177	.1789	.1942	.1003-01	.8200-02	.8947-02	6.038	45.80	604.6
43	32.000	1.04500	841.00	.2188	.1789	.1952	.1008-01	.8241-02	.8992-02	6.055	45.10	606.0
43	32.000	1.05000	842.00	.1703	.1335	.1521	.7842-02	.6427-02	.7006-02	4.773	38.34	598.1
44	35.000	.50000-01	115.00	.1191	.9300-01	.1151	.5469-02	.4561-02	.5489-02	3.614	22.97	547.4
44	35.000	.20000	110.00	.1497	.1234	.1497	.6899-02	.5687-02	.6899-02	4.340	43.24	576.7
44	39.000	.10000-00	116.00	.1008	.8390-01	.1008	.4648-02	.3863-02	.4648-02	3.067	19.50	546.0
44	40.000	.76000-01	121.00	.6630-01	.5570-01	.6650-01	.3085-02	.2566-02	.3085-02	2.043	13.00	543.6
44	40.000	.15000	111.00	.2224	.1835	.2224	.1025-01	.8458-02	.1025-01	6.477	47.38	574.0
44	40.000	.20000	112.00	.1394	.1149	.1354	.6425-02	.5296-02	.6425-02	4.039	44.25	577.2
44	42.500	.50000-01	127.00	.8070-01	.6710-01	.8070-01	.3717-02	.3091-02	.3717-02	2.459	16.60	544.4
44	43.000	.15000	117.00	.9030-01	.7510-01	.9030-01	.4160-02	.3459-02	.4160-02	2.751	16.12	544.5
43	45.000	.92500	969.00	.4360-01	.3620-01	.4360-01	.2007-02	.1666-02	.2007-02	1.314	9.718	552.0
43	45.000	.95000	973.00	.3200-02	.2700-02	.3200-02	.1473-03	.1225-03	.1473-03	.9800-01	.7250	544.1
43	45.000	.97500	978.00	.2400-02	.2000-02	.2400-02	.1106-03	.9203-04	.1106-03	.7300-01	.5450	543.7
44	51.000	.20000	118.00	.4580-01	.3810-01	.4580-01	.2113-02	.1758-02	.2113-02	1.401	8.926	542.7
44	60.000	.20000	131.00	.1700-01	.1420-01	.1700-01	.7843-03	.6539-03	.7843-03	3.557	3.557	536.9
44	67.500	.20000	128.00	.2700-01	.2250-01	.2700-01	.1244-02	.1035-02	.1244-02	.8260	6.143	541.7
43	68.000	.97500	977.00	.7000-03	.6000-03	.7000-03	.3113-04	.2589-04	.3113-04	.2100-01	.1530	543.7
44	68.000	.40100	976.00	.1000-02	.6000-03	.1000-02	.4498-04	.3733-04	.4498-04	.3000-01	.2210	543.7
44	68.000	.50100	975.00	.2380-01	.1990-01	.2380-01	.1036-02	.9115-03	.1036-02	.7240	5.584	545.1
44	68.000	.60100	974.00	.4310-01	.3580-01	.4310-01	.1988-02	.1651-02	.1988-02	1.304	10.34	549.9
44	68.000	.70100	973.00	.7300-02	.5800-02	.7300-02	.3213-03	.2671-03	.3213-03	.2120	1.687	545.5
44	68.000	.80100	972.00	.2300-02	.1900-02	.2300-02	.1036-03	.8981-04	.1036-03	.7100-01	.5830	543.4
44	68.000	.90100	971.00	.1900-02	.1600-02	.1900-02	.8755-04	.7313-04	.8755-04	.5860	4.202	546.1
44	68.000	.95100	970.00	.1740-01	.1450-01	.1740-01	.8016-03	.6563-03	.8016-03	.5290	3.301	546.1
44	68.000	.97500	969.00	.1370-01	.1140-01	.1370-01	.6292-03	.5235-03	.6292-03	.4150	3.301	546.1
44	68.000	.99000	968.00	.2300-02	.1900-02	.2300-02	.1079-03	.8973-04	.1079-03	.7200-01	.5700	542.4
44	68.000	1.00000	967.00	.3200-02	.2700-02	.3200-02	.1475-03	.1229-03	.1475-03	.5900-01	.5980	535.0
44	68.000	1.01000	966.00	.3200-02	.2700-02	.3200-02	.1481-03	.1233-03	.1481-03	.9900-01	.8130	539.4
44	68.000	1.02000	965.00	.4500-02	.3700-02	.4500-02	.2072-03	.1725-03	.2072-03	.1380	1.138	539.0
44	68.000	1.03000	964.00	.5300-02	.4900-02	.5300-02	.2710-03	.2257-03	.2710-03	.1810	1.322	537.5

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1808)

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(IGT) BTU/ R FT2SEC	H(IGT) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTAOT DEG. R /SEC	TW DEG. R
44	130.00	.80500	253.00	.2800-02	.2300-02	.2800-02	.1292-03	.1076-03	.1292-03	.8600-01	.6870	539.1
44	130.00	.82900	254.00	.2800-02	.2300-02	.4200-02	.1948-03	.1623-03	.1948-03	.8600-01	.1007	538.3
44	130.00	.85200	255.00	.2800-02	.2300-02	.5300-02	.2460-03	.2049-03	.2460-03	.8600-01	.1355	537.2
44	130.00	.87500	256.00	.2800-02	.2300-02	.6400-02	.3060-03	.2549-03	.3060-03	.8600-01	.1640	536.0
44	135.00	.40100	142.00	.1200-02	.1000-02	.1200-02	.3766-03	.3141-04	.3766-03	.3700-01	.2319	533.0
44	135.00	.50100	143.00	.2800-02	.2400-02	.2800-02	.5573-04	.4641-04	.5573-04	.3700-01	.2880	538.9
44	135.00	.60100	144.00	.2800-02	.2400-02	.2800-02	.1326-03	.1104-03	.1326-03	.8600-01	.7270	540.2
44	135.00	.70100	145.00	.2800-02	.2400-02	.2800-02	.3149-03	.2621-04	.3149-03	.2030	.6170	541.0
44	135.00	.80100	146.00	.2800-02	.2400-02	.2800-02	.1162-03	.9572-04	.1162-03	.7700-01	.8170	540.1
44	135.00	.90100	147.00	.2800-02	.2400-02	.2800-02	.4710-03	.3922-03	.4710-03	.3140	.2422	538.4
44	135.00	.00100	27.00	.2800-02	.2300-02	.2800-02	.3294-03	.2744-04	.3294-03	.2200	.1695	538.2
44	135.00	.10100	27.00	.2800-02	.2300-02	.2800-02	.1193-03	.9937-04	.1193-03	.8600-01	.6160	538.4
45	135.00	.86200	261.00	.2800-02	.2300-02	.2800-02	.2313-03	.1927-03	.2313-03	.1550	.1277	536.6
44	150.00	.16300	85.00	.1200-01	.1000-01	.1200-01	.5691-03	.4740-03	.5691-03	.3500	.2629	538.3
44	150.00	.18300	84.00	.1200-01	.1000-01	.1200-01	.8467-03	.7051-03	.8467-03	.5650	.4204	539.0
44	150.00	.19300	82.00	.2800-03	.2300-03	.2800-03	.1478-04	.1231-04	.1478-04	.1000-01	.7300-01	539.9
44	155.00	.16300	80.00	.2800-01	.2300-01	.2800-01	.7300-03	.6080-03	.7300-03	.4870	.3629	538.4
44	155.00	.18300	83.00	.2800-03	.2300-03	.2800-03	.1020-04	.8463-05	.1020-04	.7300-02	.5100-01	539.8
44	160.00	.18300	77.00	.1200-01	.1010-01	.1200-01	.5590-03	.4655-03	.5590-03	.3730	.2975	538.7
44	150.00	.15000	81.00	.2800-01	.2300-01	.2800-01	.2477-02	.2060-02	.2477-02	.1641	.1179	543.5
44	175.00	.16300	79.00	.2800-01	.2300-01	.2800-01	.1300-02	.1082-02	.1300-02	.1640	.6427	541.2
44	175.00	.17500	78.00	.2800-01	.2300-01	.2800-01	.1559-02	.1306-02	.1559-02	.1042	.7498	541.6
43	180.00	.2500-01	59.00	.2800-01	.2300-01	.2800-01	.3467-02	.2883-02	.3467-02	.2299	.1707	543.7
43	180.00	.2500-01	60.00	.2800-01	.2300-01	.2800-01	.8190-03	.6820-03	.8190-03	.5470	.3940	539.0
43	180.00	.2500-01	61.00	.2800-01	.2300-01	.2800-01	.5598-03	.4970-03	.5598-03	.3990	.2544	538.8
43	180.00	.2500-01	62.00	.2800-01	.2300-01	.2800-01	.1034-02	.8609-03	.1034-02	.6890	.4394	540.4
43	180.00	.2500-01	63.00	.2800-01	.2300-01	.2800-01	.1210-02	.1007-02	.1210-02	.8350	.5279	541.6
43	180.00	.2500-01	64.00	.2800-01	.2300-01	.2800-01	.1252-02	.1042-02	.1252-02	.8320	.5799	542.1
43	180.00	.2500-01	65.00	.2800-01	.2300-01	.2800-01	.1414-02	.1175-02	.1414-02	.9390	.6534	543.2
43	180.00	.2500-01	66.00	.2800-01	.2300-01	.2800-01	.4205-02	.3491-02	.4205-02	.2756	.1529	551.3
43	180.00	.2500-01	67.00	.2800-01	.2300-01	.2800-01	.5590-02	.4639-02	.5590-02	.3659	.2029	552.2
43	180.00	.2500-01	68.00	.2800-01	.2300-01	.2800-01	.9716-03	.8083-03	.9716-03	.6450	.3993	543.0
43	180.00	.2500-01	69.00	.2800-01	.2300-01	.2800-01	.3612-03	.3004-03	.3612-03	.2430	.2033	543.5
43	180.00	.2500-01	70.00	.2800-01	.2300-01	.2800-01	.2405-03	.2000-03	.2405-03	.1590	.1353	543.9
43	180.00	.2500-01	71.00	.2800-01	.2300-01	.2800-01	.2275-03	.1892-03	.2275-03	.1510	.1238	544.1
43	180.00	.2500-01	72.00	.2800-01	.2300-01	.2800-01	.1917-03	.1555-03	.1917-03	.1270	.1011	543.9

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1808)

FUSELAGE

PARAMETRIC DATA

ALPHA = 45.00 BETA = .0000 ELEVTR = .0000 SPD8RK = .0000  
 BCFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	PN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
22	8.000	3.747	45.11	.0000	180.0	854.2	.8900-01	1348.	97.70	3.966	3874.	.7605-04
23	8.000	3.747	45.16	.0000	180.0	862.7	.8800-01	1346.	97.50	3.959	3871.	.7601-04
24	8.000	3.731	45.12	.0000	180.0	859.3	.8800-01	1346.	97.60	3.943	3872.	.7569-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	ST FR R =
22	.7853-07	.4922-01	0.0175
23	.7853-07	.4916-01	.2038-01
24	.7853-07	.4907-01	.2103-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/R FT <sup>2</sup> SEC	H(10) BTU/R FT <sup>2</sup> SEC	H(TAW) BTU/R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TW DEG. R
22	.0000	.0000	1.0000	.4963	.4090	.4536	.2443-01	.2016-01	.2332-01	15.55	85.19	576.5
22	.0000	.5000-02	2.0000	.6560	.5380	.5387	.3229-01	.2648-01	.2651-01	19.83	134.3	598.8
22	.0000	.1000-01	3.0000	.6034	.4955	.4980	.2970-01	.2439-01	.2451-01	18.38	121.0	594.1
22	.0000	.2000-01	4.0000	.4453	.3581	.3776	.2191-01	.1812-01	.1853-01	14.09	77.45	570.0
22	.0000	.3000-01	5.0000	.3453	.2687	.2998	.1714-01	.1419-01	.1475-01	11.13	61.39	563.6
22	.0000	.4000-01	6.0000	.2643	.2358	.2473	.1399-01	.1160-01	.1217-01	9.168	50.71	557.7
22	.0000	.5000-01	7.0000	.2049	.2434	.2576	.1451-01	.1193-01	.1269-01	9.247	61.44	575.9
22	.0000	.6000-01	8.0000	.3011	.2489	.2648	.1482-01	.1255-01	.1333-01	9.523	59.82	570.3
22	.0000	.7000-01	9.0000	.2690	.2219	.2376	.1324-01	.1092-01	.1170-01	8.421	57.67	576.8
22	.0000	.8000-01	10.000	.2063	.1822	.1937	.1073-01	.8669-02	.9535-02	6.897	47.40	570.1
22	.0000	.9000-01	11.000	.2063	.1708	.1841	.1015-01	.8405-02	.9361-02	6.587	41.50	564.2
22	.0000	.10000-00	12.000	.1963	.1629	.1762	.9696-02	.8018-02	.8672-02	6.274	37.37	565.3
22	.0000	.12000	14.000	.1835	.1521	.1652	.8332-02	.7468-02	.8132-02	5.901	32.61	559.6
22	.0000	.13200	15.000	.1747	.1445	.1573	.8558-02	.7117-02	.7744-02	5.570	32.31	565.2
22	.0000	.14000	16.000	.1622	.1310	.1427	.7765-02	.6448-02	.7022-02	5.054	31.85	563.9
22	.0000	.15000	18.000	.1727	.1428	.1550	.8500-02	.7030-02	.7555-02	5.478	33.49	568.5
22	.0000	.17000	19.000	.1655	.1353	.1523	.8237-02	.6657-02	.7459-02	5.327	33.45	571.0





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## AEDC VKF V41B-57A (OH-498) COLLATION DECK

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## OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(9TO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(1AH) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTMOT DEG. R /SEC	TW DEG. R
23	25.500	.15000	107.00	.2014	.1661	2014	.9902-02	.8166-02	.9902-02	6.268	54.90	578.5
22	30.000	.92500	970.00	.1665	.1334	1625	.7996-02	.6564-02	.7996-02	4.938	35.74	595.5
22	30.000	.95000	974.00	.2243	.1832	2243	.1104-01	.9015-02	.1104-01	6.634	47.63	612.0
22	30.000	.97500	978.00	.1152	.1152	1152	.6869-02	.5668-02	.6869-02	4.366	31.89	577.3
23	31.500	.90000	103.00	.1400	.1154	1400	.6869-02	.5668-02	.6869-02	4.366	43.42	577.3
22	32.000	.40000	831.00	.1211	.1211	1337	.7248-02	.5551-02	.6990-02	4.565	30.82	588.5
22	32.000	.40000	832.00	.1214	.1214	1337	.6272-02	.5137-02	.6990-02	3.826	26.70	603.0
22	32.000	.40000	833.00	.1217	.1217	1337	.7482-02	.6111-02	.6767-02	4.492	29.31	612.6
22	32.000	.40000	834.00	.1220	.1220	1337	.1231-01	.1019-01	.1134-01	7.482	54.99	633.6
22	32.000	.40000	835.00	.1223	.1223	1337	.1844-01	.1493-01	.1660-01	10.56	72.40	640.1
22	32.000	.40000	836.00	.1226	.1226	1337	.1571-01	.1275-01	.1435-01	9.120	54.82	632.5
22	32.000	.40000	837.00	.1229	.1229	1337	.1577-01	.1281-01	.1443-01	9.214	67.89	628.6
22	32.000	.40000	838.00	.1232	.1232	1337	.1239-01	.1033-01	.1481-01	9.231	70.07	639.4
22	32.000	.40000	839.00	.1235	.1235	1337	.1239-01	.1033-01	.1481-01	9.231	70.07	639.4
22	32.000	.40000	840.00	.1238	.1238	1337	.1139-01	.0937-02	.0937-02	6.692	59.13	623.8
22	32.000	.40000	841.00	.1241	.1241	1337	.1139-01	.0937-02	.0937-02	6.692	59.13	623.8
22	32.000	.40000	842.00	.1244	.1244	1337	.8513-02	.6974-02	.7603-02	5.196	41.64	602.6
22	32.000	.40000	843.00	.1247	.1247	1337	.7355-02	.6031-02	.7311-02	4.649	46.17	582.8
22	32.000	.40000	844.00	.1250	.1250	1337	.4975-02	.4139-02	.4975-02	3.311	21.06	545.9
22	32.000	.40000	845.00	.1253	.1253	1337	.3283-02	.2733-02	.3283-02	2.195	13.98	542.8
22	32.000	.40000	846.00	.1256	.1256	1337	.1108-01	.0945-02	.1108-01	7.037	51.41	576.6
22	32.000	.40000	847.00	.1259	.1259	1337	.6821-02	.5618-02	.6821-02	4.269	46.86	582.7
22	32.000	.40000	848.00	.1262	.1262	1337	.3353-02	.2394-02	.3353-02	2.646	17.87	543.0
22	32.000	.40000	849.00	.1265	.1265	1337	.4422-02	.3592-02	.4422-02	2.945	17.25	545.4
22	32.000	.40000	850.00	.1268	.1268	1337	.2168-02	.1800-02	.2168-02	1.429	10.56	554.0
22	32.000	.40000	851.00	.1271	.1271	1337	.1697-03	.1412-03	.1697-03	.1130	.8410	545.6
22	32.000	.40000	852.00	.1274	.1274	1337	.1163-03	.0955-04	.1163-03	.7800-01	.5770	544.9
22	32.000	.40000	853.00	.1277	.1277	1337	.2242-02	.1855-02	.2242-02	1.494	9.501	545.2
22	32.000	.40000	854.00	.1280	.1280	1337	.8243-03	.6875-03	.8243-03	.5580	3.781	535.1
22	32.000	.40000	855.00	.1283	.1283	1337	.1343-02	.1123-02	.1343-02	.9010	6.697	543.3
22	32.000	.40000	856.00	.1286	.1286	1337	.1417-04	.1179-04	.1417-04	.9000-02	.7000-01	544.9
22	32.000	.40000	857.00	.1289	.1289	1337	.4712-04	.3933-04	.4712-04	.3200-01	.2340	544.4
22	32.000	.40000	858.00	.1292	.1292	1337	.1177-02	.0991-03	.1177-02	.7840	6.038	545.8
22	32.000	.40000	859.00	.1295	.1295	1337	.3419-02	.2926-03	.3419-02	1.528	12.09	552.6
22	32.000	.40000	860.00	.1298	.1298	1337	.2926-03	.2506-03	.2926-03	.2320	1.843	547.4
22	32.000	.40000	861.00	.1301	.1301	1337	.1038-03	.0918-04	.1038-03	.7300-01	.5820	544.5
22	32.000	.40000	862.00	.1304	.1304	1337	.9397-04	.8317-04	.9397-04	.6700-01	.5340	541.1
22	32.000	.40000	863.00	.1307	.1307	1337	.8793-03	.7315-03	.8793-03	.4380	4.634	547.9
22	32.000	.40000	864.00	.1310	.1310	1337	.6600-03	.5497-03	.6600-03	.9400-01	.7450	542.3
22	32.000	.40000	865.00	.1313	.1313	1337	.1338-03	.1139-03	.1338-03	.1090	.6580	534.1
22	32.000	.40000	866.00	.1316	.1316	1337	.1604-03	.1369-03	.1604-03	.1140	.9380	537.4
22	32.000	.40000	867.00	.1319	.1319	1337	.1688-03	.1407-03	.1688-03			

(RV1808)

AEDC VKF V418-57A 'OH-498: COLLAT' ON DECK

OH-498 (AFDC V418-57A) CRBITER FUSELAGE

DATE 25 AUG 75

ROW NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF ('AM)	H(190) BTU/ R FT2SEC	H(101) BTU/ R FT2SEC	H(1AH) BTU/ R FT2SEC	QDOT ATU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
21	120.00	820.00	3.8.00	530.02	400.02	530.02	2593-03	2158-03	2589-03	1750	1.441	536.7
22	120.00	860.00	3.9.00	530.02	500.02	530.02	2340-03	2785-03	3340-03	2260	1.650	535.7
23	120.00	900.00	3.9.00	3100.02	2600.02	3.30.02	1542-03	1285-03	1542-03	1040	.8310	537.0
24	120.00	820.00	3.9.00	400.02	300.02	400.02	2085-03	1722-03	2085-03	1400	1.083	535.5
25	120.00	860.00	3.9.00	400.02	400.02	400.02	2674-03	2330-03	2674-03	1810	1.494	534.8
26	120.00	900.00	3.9.00	400.02	400.02	400.02	4557-03	3335-03	4557-03	3100	2.647	530.1
27	120.00	820.00	3.9.00	1100.02	1100.02	1100.02	6341-04	5285-04	6341-04	4300-01	.3310	537.5
28	120.00	860.00	3.9.00	300.02	200.02	300.02	1580-03	1316-03	1580-03	1060	.8730	539.8
29	120.00	900.00	3.9.00	5700.02	5700.02	5700.02	3336-03	2797-03	3336-03	2250	1.741	540.8
30	120.00	820.00	3.9.00	200.02	200.02	200.02	1188-03	9935-04	1188-03	8000-01	.6370	539.0
31	120.00	860.00	3.9.00	200.02	200.02	200.02	3431-03	2803-03	3431-03	2310	1.779	538.4
32	120.00	900.00	3.9.00	200.02	200.02	200.02	3623-03	3008-03	3623-03	2430	1.675	537.3
33	120.00	820.00	3.9.00	200.02	200.02	200.02	1737-03	1195-03	1737-03	9700-01	.510	536.0
34	120.00	860.00	3.9.00	200.02	200.02	200.02	2080-03	1715-03	2080-03	1330	1.039	538.5
35	120.00	900.00	3.9.00	400.02	400.02	400.02	2729-03	2275-03	2729-03	1640	1.619	536.9
36	120.00	820.00	3.9.00	100.02	100.02	100.02	6338-03	5280-03	6338-03	4270	3.179	537.9
37	120.00	860.00	3.9.00	100.02	100.02	100.02	9492-03	7910-03	9492-03	6390	4.759	538.3
38	120.00	900.00	3.9.00	100.02	100.02	100.02	1502-04	1252-04	1502-04	1000-01	.7500-01	537.5
39	120.00	820.00	3.9.00	100.02	100.02	100.02	6093-03	6751-03	6093-03	5460	4.066	537.6
40	120.00	860.00	3.9.00	100.02	100.02	100.02	4605-05	3633-05	4605-05	3000-02	.2300-01	537.8
41	120.00	900.00	3.9.00	100.02	100.02	100.02	6301-03	5251-03	6301-03	4250	3.363	537.6
42	120.00	820.00	3.9.00	100.02	100.02	100.02	2682-02	2216-02	2682-02	1779	12.79	543.2
43	120.00	860.00	3.9.00	100.02	100.02	100.02	1398-02	1162-02	1398-02	9360	6.967	540.5
44	120.00	900.00	3.9.00	100.02	100.02	100.02	1714-02	1428-02	1714-02	1150	8.276	540.8
45	120.00	820.00	3.9.00	100.02	100.02	100.02	3516-02	2927-02	3516-02	2355	17.50	543.1
46	120.00	860.00	3.9.00	100.02	100.02	100.02	6536-03	5485-03	6536-03	5760	4.152	538.1
47	120.00	900.00	3.9.00	100.02	100.02	100.02	1185-02	9875-03	1185-02	7980	2.926	538.2
48	120.00	820.00	3.9.00	100.02	100.02	100.02	1422-02	1184-02	1422-02	9560	5.030	539.7
49	120.00	860.00	3.9.00	100.02	100.02	100.02	1302-02	1084-02	1302-02	5660	6.271	540.9
50	120.00	900.00	3.9.00	100.02	100.02	100.02	1414-02	1177-02	1414-02	8740	6.094	541.4
51	120.00	820.00	3.9.00	100.02	100.02	100.02	4699-02	3506-02	4699-02	610	6.610	542.2
52	120.00	860.00	3.9.00	100.02	100.02	100.02	6032-02	5061-02	6032-02	3.122	17.35	548.6
53	120.00	900.00	3.9.00	100.02	100.02	100.02	1050-02	875-03	1050-02	4.032	22.38	551.1
54	120.00	820.00	3.9.00	100.02	100.02	100.02	3948-03	3289-03	3948-03	7060	4.374	540.8
55	120.00	860.00	3.9.00	100.02	100.02	100.02	2466-03	2054-03	2466-03	2650	2.258	540.5
56	120.00	900.00	3.9.00	100.02	100.02	100.02	2487-03	2071-03	2487-03	1660	1.409	540.9
57	120.00	820.00	3.9.00	100.02	100.02	100.02	2276-03	1856-03	2276-03	1670	1.373	541.6
58	120.00	860.00	3.9.00	100.02	100.02	100.02	4600-02	1856-03	4600-02	1530	1.219	541.1

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



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DATE 25 AUG 76

AEDC VKF V41B-57A (OH-498) COLLATION DECK

CH-33 (AEDC V41B-57A) DBBITER FUSELAGE

PAGE 03

(REV 03)

PUN NUMBER	THETA	X/Z	1/2 NO	H/HREF R=0.9	H/HREF P=1.0	H/HREF (TAN)	H(9T0) BTU/ R FT2SEC	H(1T0) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	GOOT BTU/ R FT2SEC	DTWOT OEG. R SEC	TH DEG. F
191	130.00	82500	253.00	4120-02	3400-02	4120-02	7318-04	6072-04	7318-04	4500-01	3650	524.4
191	130.00	82500	253.00	4500-02	3700-02	4500-02	8041-04	6873-04	8041-04	5000-01	3890	524.4
191	130.00	82500	253.00	4500-02	3700-02	4500-02	8212-04	6873-04	8212-04	5000-01	4230	524.2
191	130.00	82500	253.00	4500-02	3700-02	4500-02	3313-04	3274-04	3313-04	3700-01	3070	528.6
191	130.00	82500	253.00	4500-02	3700-02	4500-02	5018-04	3700-04	5018-04	3700-01	3070	528.6
191	130.00	82500	253.00	4500-02	3700-02	4500-02	4521-04	3700-04	4521-04	3700-01	2170	528.1
191	130.00	82500	253.00	4500-02	3700-02	4500-02	5053-04	4198-04	5053-04	3100-01	2510	527.2
191	130.00	82500	253.00	4500-02	3700-02	4500-02	3478-03	2550-03	3478-03	2120	1.543	528.6
191	130.00	82500	253.00	4500-02	3700-02	4500-02	8562-04	7171-04	8562-04	5100-01	4100	528.6
191	130.00	82500	253.00	4500-02	3700-02	4500-02	9307-04	7723-04	9307-04	5500-01	4500	524.2
191	130.00	82500	253.00	4500-02	3700-02	4500-02	5659-04	4198-04	5659-04	6100-01	5070	524.0
191	130.00	82500	253.00	4500-02	3700-02	4500-02	1654-03	1371-03	1654-03	1120	7640	527.0
191	130.00	82500	253.00	4500-02	3700-02	4500-02	1813-03	1524-03	1813-03	1120	8380	528.9
191	130.00	82500	253.00	4500-02	3700-02	4500-02	3132-05	2550-05	3132-05	2100-02	1460-01	537.1
191	130.00	82500	253.00	4500-02	3700-02	4500-02	2032-03	1584-03	2032-03	1250	9350	527.3
191	130.00	82500	253.00	4500-02	3700-02	4500-02	6986-05	5776-05	6986-05	4000-02	3200-01	537.0
191	130.00	82500	253.00	4500-02	3700-02	4500-02	1905-03	1590-03	1905-03	1180	9430	527.2
191	130.00	82500	253.00	4500-02	3700-02	4500-02	5528-03	4582-03	5528-03	3400	2.466	528.3
191	130.00	82500	253.00	4500-02	3700-02	4500-02	4054-03	3350-03	4054-03	2500	1.859	528.2
191	130.00	82500	253.00	4500-02	3700-02	4500-02	4059-03	3350-03	4059-03	2500	1.829	528.2
191	130.00	82500	253.00	4500-02	3700-02	4500-02	4059-03	3350-03	4059-03	2500	1.829	528.2
191	130.00	82500	253.00	4500-02	3700-02	4500-02	1180-02	9555-03	1180-02	7210	5.384	532.5
191	130.00	82500	253.00	4500-02	3700-02	4500-02	3172-03	2542-03	3172-03	1940	1.407	530.6
191	130.00	82500	253.00	4500-02	3700-02	4500-02	2053-03	1701-03	2053-03	1250	8070	530.1
191	130.00	82500	253.00	4500-02	3700-02	4500-02	2542-03	2106-03	2542-03	1560	1.000	529.7
191	130.00	82500	253.00	4500-02	3700-02	4500-02	4199-03	3479-03	4199-03	1970	1.365	529.4
191	130.00	82500	253.00	4500-02	3700-02	4500-02	3216-03	2555-03	3216-03	2580	1.808	529.5
191	130.00	82500	253.00	4500-02	3700-02	4500-02	8710-03	7213-03	8710-03	5330	2.990	531.2
191	130.00	82500	253.00	4500-02	3700-02	4500-02	1346-02	1115-02	1346-02	8240	4.622	531.1
191	130.00	82500	253.00	4500-02	3700-02	4500-02	2681-03	2222-03	2681-03	1560	1.029	529.5
191	130.00	82500	253.00	4500-02	3700-02	4500-02	5141-04	4682-04	5141-04	3200-01	2710	527.8
191	130.00	82500	253.00	4500-02	3700-02	4500-02	5614-04	4653-04	5614-04	3200-01	2960	527.9
191	130.00	82500	253.00	4500-02	3700-02	4500-02	5613-04	4653-04	5613-04	3200-01	2960	527.9
191	130.00	82500	253.00	4500-02	3700-02	4500-02	1052-03	9950-04	1052-03	6700-01	5410	527.3







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## AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B091)

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(11AW) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWOT DEG. R /SEC	TW DEG. R
153	30.000	.92500	970.00	.1895	.1552	.1895	.4611-02	.3777-02	.4611-02	2.634	19.37	563.9
153	30.000	.95000	974.00	.2202	.1801	.2202	.5359-02	.4384-02	.5359-02	3.041	22.32	567.7
153	30.000	.97500	979.00	.1334	.1096	.1334	.3246-02	.2667-02	.3246-02	1.885	13.93	554.5
164	31.500	.20000	108.00	.1527	.1254	.1527	.3709-02	.3047-02	.3709-02	2.154	21.70	554.7
163	32.000	.40000	831.00	.1636	.1342	.1636	.3591-02	.3266-02	.3591-02	2.296	15.87	558.5
163	32.000	.50000	832.00	.1410	.1155	.1454	.3412-02	.2811-02	.3412-02	1.959	13.94	564.2
163	32.000	.60000	833.00	.1255	.1028	.1114	.3056-02	.2501-02	.2712-02	1.737	11.60	566.6
163	32.000	.70000	834.00	.9540-01	.7890-01	.8550-01	.2347-02	.1918-02	.2081-02	1.324	10.03	571.0
163	32.000	.80000	835.00	.9280-01	.7530-01	.8230-01	.2258-02	.1848-02	.2003-02	1.284	9.121	566.6
163	32.000	.90000	836.00	.9000-01	.7410-01	.8130-01	.2202-02	.1804-02	.1978-02	1.258	9.246	564.1
163	32.000	.95000	837.00	.1033	.8510-01	.9330-01	.3528-02	.2071-02	.2234-02	1.444	10.98	564.0
163	32.000	.97500	838.00	.1015	.8310-01	.9160-01	.2469-02	.2021-02	.2234-02	1.406	11.06	565.8
163	32.000	1.0150	839.00	.5320-01	.5130-01	.5540-01	.1537-02	.1260-02	.1346-02	.840	7.099	560.3
163	32.000	1.0300	840.00	.6780-01	.5560-01	.5950-01	.1650-02	.1354-02	.1448-02	.9530	7.395	557.8
163	32.000	1.0450	841.00	.7430-01	.6100-01	.6520-01	.1808-02	.1484-02	.1555-02	1.042	7.946	558.8
163	32.000	1.0600	842.00	.6250-01	.5130-01	.5460-01	.1521-02	.1243-02	.1335-02	.800	7.215	555.7
164	35.000	.20000	115.00	.1105	.9100-01	.1105	.2633-02	.2212-02	.2350-02	1.588	10.11	543.8
164	35.000	.50000-01	116.00	.9540-01	.7860-01	.8540-01	.2317-02	.1910-02	.2317-02	1.370	8.723	544.1
164	40.000	.15000	121.00	.6400-01	.5270-01	.6300-01	.1553-02	.1281-02	.1553-02	.920	5.871	542.3
164	40.000	.20000	121.00	.2307	.1295	.2307	.5604-02	.4603-02	.5604-02	3.251	24.01	555.3
164	40.000	.20000	122.00	.1483	.1218	.1483	.3604-02	.2953-02	.3504-02	2.083	23.05	557.5
164	42.500	.50000-01	127.00	.7110-01	.6360-01	.7710-01	.1873-02	.1544-02	.1873-02	1.110	7.497	543.0
164	45.000	.15000	117.00	.9030-01	.7440-01	.9030-01	.2193-02	.1805-02	.2193-02	1.294	7.582	545.3
163	45.000	.92500	969.00	.3720-01	.3070-01	.3720-01	.9053-03	.7465-03	.9053-03	.5370	3.991	542.1
163	45.000	.95000	973.00	.2600-02	.2100-02	.2600-02	.6296-04	.5197-04	.6296-04	.3800-01	.2790	539.1
163	45.000	.97500	978.00	.1800-02	.1530-02	.1800-02	.4238-04	.3547-04	.4238-04	.2600-01	.1910	538.7
164	51.000	.20000	118.00	.4440-01	.3650-01	.4440-01	.1078-02	.6293-03	.1078-02	.6380	4.059	543.9
164	60.000	.50000-01	131.00	.1560-01	.1280-01	.1560-01	.3781-03	.3121-03	.3781-03	.2250	1.525	529.4
164	67.500	.20000	128.00	.2740-01	.2260-01	.2740-01	.6651-03	.5483-03	.6651-03	.3940	2.926	543.3
163	75.000	.97500	977.00	.7000-03	.6000-03	.7000-03	.1724-04	.1423-04	.1724-04	.1000-01	.7700-01	538.7
163	85.000	.97500	976.00	.1800-02	.1500-02	.1800-02	.6208-03	.4471-04	.6208-03	.2700-01	.1990	538.6
164	105.00	.40100	135.00	.2560-01	.2110-01	.2560-01	.6208-03	.5116-03	.6208-03	.3673	2.831	544.3
164	105.00	.50100	136.00	.1500-01	.1240-01	.1500-01	.3647-03	.3206-03	.3647-03	.2160	1.714	544.6
164	105.00	.60100	137.00	.8000-03	.6000-03	.8000-03	.1855-04	.1530-04	.1855-04	.1100-01	.8700-01	543.2
164	105.00	.70100	139.00	.2000-02	.1700-02	.2000-02	.4974-04	.4102-04	.4974-04	.3000-01	.2350	542.2
164	105.00	.80000	139.00	.1400-02	.1100-02	.1400-02	.3310-04	.2731-04	.3310-04	.2000-01	.1570	540.1
164	113.00	.60100	146.00	.3600-02	.3100-02	.3600-02	.9257-04	.7632-04	.9257-04	.4700-01	.4370	542.9
164	116.00	.60100	147.00	.3200-02	.2700-02	.3200-02	.7880-04	.6497-04	.7880-04	.4700-01	.4370	542.8
164	116.00	.75100	148.00	.1700-02	.1400-02	.1700-02	.4216-04	.3479-04	.4216-04	.2500-01	.2000	539.8
164	120.00	.10000+00	132.00	.3400-02	.2800-02	.3400-02	.8321-04	.6867-04	.8321-04	.5000-01	.2990	539.7
164	120.00	.60500	247.00	.3500-02	.3000-02	.3500-02	.8712-04	.7194-04	.8712-04	.5200-01	.4290	537.6
164	120.00	.82900	248.00	.3900-02	.3200-02	.3900-02	.9352-04	.7722-04	.9352-04	.5600-01	.4610	537.5

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AEDC VKC V41B-57A (OH-49B) COLLATION DICK

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## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/R FT2SEC	H(10) BTU/R FT2SEC	H(TAN) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
164	120.00	.86200	249.00	.5307-02	.4400-02	.5300-02	.1285-03	.1061-03	.1285-03	.7700-01	.5620	536.6
164	130.00	.80500	253.00	.4800-02	.4000-02	.4800-02	.1169-03	.9651-04	.1169-03	.7000-01	.5580	537.5
164	130.00	.82900	254.00	.5300-02	.4400-02	.5300-02	.1285-03	.1061-04	.1285-03	.7700-01	.5960	536.9
164	130.00	.86200	255.00	.5300-02	.4400-02	.5300-02	.1297-03	.1071-03	.1297-03	.7800-01	.6410	536.4
164	135.00	.40100	142.00	.2000-02	.1800-02	.2000-02	.4827-04	.3982-04	.4827-04	.2900-01	.2220	540.7
164	135.00	.50100	143.00	.2600-02	.2200-02	.2600-02	.6362-04	.5248-04	.6362-04	.3800-01	.3110	541.2
164	135.00	.60100	144.00	.5500-02	.4600-02	.5500-02	.1344-03	.1109-03	.1344-03	.8000-01	.6170	541.4
164	135.00	.70100	145.00	.2800-02	.2300-02	.2800-02	.6732-04	.5555-04	.6732-04	.4000-01	.3200	540.2
164	140.00	.18000	85.000	.4200-02	.3400-02	.4200-02	.1009-03	.8320-04	.1009-03	.6000-01	.4610	541.9
164	140.00	.19500	87.000	.5500-02	.4500-02	.5500-02	.1335-03	.1101-03	.1335-03	.7900-01	.6110	540.7
164	145.00	.80500	259.00	.6500-02	.5400-02	.6500-02	.1576-03	.1301-03	.1576-03	.9400 01	.7300	537.6
165	145.00	.82900	260.00	.2350-01	.1940-01	.2350-01	.5704-03	.4777-03	.5704-03	.3440	2.591	532.3
165	145.00	.86200	261.00	.6900-02	.5700-02	.6900-02	.1679-03	.136 03	.1679-03	.1010	.8360	532.7
164	150.00	.16000	88.000	.9400-02	.7800-02	.9400-02	.2287-03	.183 03	.2287-03	.1360	1.011	541.1
164	150.00	.18000	94.000	.1350-01	.1090-01	.1350-01	.3221-03	.2659-03	.3221-03	.1920	1.425	540.9
164	150.00	.19000	82.000	.4600-03	.3000-03	.4600-03	.8697-05	.7189-05	.8697-05	.5000-02	.3900-01	533.8
164	155.00	.16000	80.000	.1200-01	.1030-01	.1200-01	.3102-03	.2559-03	.3102-03	.1840	1.372	533.7
164	155.00	.18000	93.000	.4000-03	.4000-03	.4000-03	.1075 04	.6885-05	.1075-04	.6000-02	.4800-01	541.5
164	160.00	.13000	77.000	.5500-02	.7800-02	.9500-02	.2306-03	.1902-03	.2306-03	.1370	1.092	542.4
164	175.00	.15000	81.000	.3800-01	.3020-01	.3550-01	.6884-03	.7326-03	.6884-03	.5270	3.790	541.8
164	175.00	.16500	79.000	.2470-01	.2030-01	.2470-01	.5988-03	.4938-03	.5988-03	.3560	2.643	541.4
163	175.00	.17500	78.000	.2310-01	.1900-01	.2310-01	.5604-03	.4622-03	.5604-03	.3330	2.396	541.4
163	180.00	.10000-01	59.000	.5000-01	.5000-01	.6060-01	.1475-02	.1218-02	.1475-02	.8810	6.561	538.0
163	180.00	.25000-01	60.000	.1600-01	.1390-01	.1680-01	.4082-03	.3372-03	.4082-03	.2450	1.764	536.2
163	180.00	.50000-01	61.000	.1600-01	.1070-01	.1250-01	.2038-03	.2510-03	.3038-03	.1820	1.162	536.5
163	180.00	.75000-01	62.000	.1700-01	.1480-01	.1700-01	.4363-03	.3606-03	.4363-03	.2610	1.665	538.0
163	180.00	.10000+00	53.000	.1900-01	.1600-01	.1900-01	.4780-03	.3946-03	.4780-03	.2850	1.872	539.0
163	180.00	.12500	64.000	.1900-01	.1630-01	.1980-01	.4917-03	.3976-03	.4617-03	.2870	2.005	538.9
163	180.00	.15000	65.000	.2600-01	.2100-01	.2660-01	.6466-03	.5336-03	.6466-03	.3850	2.688	539.5
163	180.00	.16000	66.000	.3300-01	.2100-01	.6320-01	.1539-02	.1269-02	.1539-02	.9120	5.086	542.3
163	180.00	.17000	67.000	.9070-01	.7470-01	.9070-01	.2202-02	.1819-02	.2202-02	1.306	7.275	543.3
163	180.00	.20000	69.000	.1750-01	.1440-01	.1750-01	.4261-03	.3516-03	.4261-03	.2540	1.573	539.9
163	180.00	.40100	72.000	.5200-02	.4300-02	.5200-02	.1263-03	.1043-03	.1263-03	.7500-01	.6410	539.2
163	180.00	.50000	73.000	.4200-02	.3500-02	.4200-02	.1020-03	.8419-04	.1020-03	.6100-01	.5170	539.2
163	180.00	.60100	74.000	.6500-02	.5400-02	.6500-02	.1589-03	.1311-03	.1589-03	.9500-01	.7790	543.5
163	180.00	.70100	75.000	.1070-01	.8900-02	.1070-01	.2612-03	.2156-03	.2612-03	.1560	1.244	538.6

AEDC VKF V41B-57A (OH-49B) COLLATION CHECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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FUSELAGE

PARAMETRIC DATA

ALPHA = 50.00 BETA = .0000 ELEVTR = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
119	7.970	1.489	50.05	.0000	180.0	320.2	.3400-01	1295.	94.50	1.494	3796.	.2983-04
136	7.970	1.511	50.10	.0000	180.0	321.4	.3400-01	1286.	93.80	1.500	3783.	.3017-04
138	7.970	1.503	50.10	.0000	180.0	319.5	.3400-01	1285.	93.80	1.491	3782.	.3001-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
119	.7608-07	.3000-01	0.0175
136	.7553-07	.3002-01	.3336-01
138	.7550-07	.2993-01	.3315-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DIMDT DEG. R /SEC	TM DEG. R
136	.00000	.00000	1.0000	.4324	.3568	.4035	.1298-01	.1371-01	.1211-01	7.878	43.74	550.2
136	.00000	.50000-02	2.0000	.6256	.5138	.5167	.1878-01	.1542-01	.1551-01	11.09	76.34	566.6
136	.00000	.10000-01	3.0000	.6201	.5093	.5099	.1861-01	.1529-01	.1531-01	11.01	73.49	565.8
136	.00000	.20000-01	4.0000	.4609	.3800	.3959	.1384-01	.1141-01	.1159-01	8.349	46.27	553.8
136	.00000	.30000-01	5.0000	.3741	.3087	.3169	.1123-01	.9265-02	.9515-02	6.809	37.79	550.8
136	.00000	.40000-01	6.0000	.3120	.2576	.2657	.9357-02	.7734-02	.8036-02	5.704	31.70	548.1
136	.00000	.50000-01	7.0000	.3160	.2601	.2712	.9465-02	.7808-02	.8142-02	5.678	38.05	558.5
136	.00000	.60000-01	8.0000	.2830	.2661	.2788	.9695-02	.7990-02	.8371-02	5.837	36.95	555.0
136	.00000	.70000-01	9.0000	.2889	.2378	.2506	.6674-02	.7139-02	.7522-02	5.187	35.84	559.0
136	.00000	.80000-01	10.000	.2401	.1978	.2092	.7203-02	.5939-02	.6282-02	4.335	30.01	555.5
136	.00000	.90000-01	11.000	.2282	.1882	.1997	.6852-02	.5652-02	.5944-02	4.147	26.30	551.8
136	.00000	.10000+00	12.000	.2155	.1777	.1891	.6469-02	.5335-02	.5676-02	3.911	23.45	552.5
136	.00000	.12000	14.000	.2074	.1712	.1829	.6226-02	.5141-02	.5490-02	3.790	21.06	548.4
136	.00000	.13000	15.000	.1933	.1594	.1706	.5804-02	.4786-02	.5121-02	3.510	20.49	552.3
136	.00000	.14000	16.000	.1810	.1493	.1599	.5432-02	.4482-02	.4799-02	3.291	20.88	551.2
136	.00000	.15000	18.000	.1853	.1528	.1639	.5564-02	.4586-02	.4931-02	3.357	20.67	553.7
136	.00000	.16000	19.000	.1857	.1531	.1644	.5576-02	.4595-02	.4936-02	3.357	21.25	555.0

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OH-498 (AECG V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(OTO) BTU/ R FT2SEC	H(TOI) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
136	.00000	.18000	20.000	.1839	.1515	.1639	.5520-02	.4547-02	.4889-02	3.318	21.00	555.9
136	.00000	.19000	21.000	.1755	.1447	.1557	.5268-02	.4344-02	.4674-02	3.183	20.17	552.9
136	.00000	.20000	22.000	.1785	.1470	.1585	.5359-02	.4414-02	.4757-02	3.221	20.38	556.0
136	.00000	.21000	23.000	.1737	.1431	.1546	.5215-02	.4297-02	.4641-02	3.139	19.87	555.2
136	.00000	.22000	24.000	.1602	.1300	.1427	.4809-02	.3962-02	.4295-02	2.891	18.29	556.0
136	.00000	.23000	25.000	.1526	.1257	.1360	.4582-02	.3713-02	.4082-02	2.747	17.36	557.6
136	.00000	.24000	26.000	.1497	.1231	.1332	.4494-02	.3695-02	.3999-02	2.673	16.86	562.3
136	.00000	.25000	27.000	.1491	.1226	.1327	.4478-02	.3681-02	.3985-02	2.661	17.27	562.9
136	.00000	.26000	28.000	.1335	.1096	.1187	.4009-02	.3292-02	.3565-02	2.356	15.79	567.0
136	.00000	.27000	29.000	.1220	.1001	.1084	.3661-02	.3005-02	.3255-02	2.155	14.82	568.5
136	.00000	.28000	30.000	.1188	.974-0-01	.1055	.3566-02	.2923-02	.3168-02	2.086	15.27	572.2
136	.00000	.29000	31.000	.1048	.8590-01	.9310-01	.3146-02	.2579-02	.2795-02	1.839	13.46	572.6
136	.00000	.30000	32.000	.1040	.8510-01	.9230-01	.3121-02	.2555-02	.2770-02	1.813	13.25	576.3
136	.00000	.31000	33.000	.1039	.8500-01	.9220-01	.3118-02	.2552-02	.2767-02	1.807	13.65	577.6
136	.00000	.32000	34.000	.1039	.8660-01	.9330-01	.3177-02	.2599-02	.2819-02	1.838	13.41	578.6
136	.00000	.33000	35.000	.1139	.9320-01	.1010	.3419-02	.2797-02	.3033-02	1.974	14.40	579.6
136	.00000	.34000	36.000	.1160	.9480-01	.1039	.3492-02	.2847-02	.3119-02	2.008	15.15	580.4
136	.00000	.35000	37.000	.1216	.9950-01	.1092	.3551-02	.2988-02	.3279-02	2.114	14.93	578.1
136	.00000	.36000	38.000	.1216	.8950-01	.9410-01	.3136-02	.2694-02	.2971-02	1.901	15.41	579.8
136	.00000	.37000	39.000	.1097	.8970-01	.9330-01	.3294-02	.2625-02	.2907-02	1.879	15.77	584.3
136	.00000	.38000	40.000	.1066	.8740-01	.9630-01	.3193-02	.2625-02	.2907-02	1.879	15.77	584.3
136	.00000	.39000	41.000	.9810-01	.8063-01	.8920-01	.2946-02	.2420-02	.2678-02	1.741	12.78	536.2
136	.00000	.40000	42.000	.9210-01	.7560-01	.8370-01	.2764-02	.2269-02	.2512-02	1.626	12.78	568.8
136	.00000	.41000	43.000	.7920-01	.6500-01	.7200-01	.2378-02	.1951-02	.2161-02	1.399	11.62	568.7
136	.00000	.42000	44.000	.5900-02	.4900-02	.5900-02	.1763-03	.1460-03	.1763-03	1.090	.6610	536.9
136	.00000	.43000	45.000	.7100-02	.5900-02	.7100-02	.2141-03	.1773-03	.2141-03	1.330	.8250	536.9
136	.00000	.44000	46.000	.1030-01	.9000-02	.1090-01	.3261-03	.2701-03	.3261-03	2.020	1.221	537.4
136	.00000	.45000	47.000	.1338	.1147	.1242	.4195-02	.3443-02	.3730-02	2.465	19.36	569.7
136	.00000	.46000	48.000	.1305	.1089	.1159	.3917-02	.3209-02	.3478-02	2.285	17.91	573.7
136	.00000	.47000	49.000	.8820-01	.7230-01	.7830-01	.2649-02	.2169-02	.2352-02	1.539	13.50	576.1
136	.00000	.48000	50.000	.1072	.8770-01	.9510-01	.3219-02	.2633-02	.2855-02	1.860	13.57	579.3
136	.00000	.49000	51.000	.1078	.8820-01	.9570-01	.3237-02	.2648-02	.2872-02	1.670	13.65	579.2
136	.00000	.50000	52.000	.1020	.8340-01	.9160-01	.3061-02	.2505-02	.2749-02	1.772	13.86	578.3
136	.00000	.51000	53.000	.1893	.1548	.1893	.5684-02	.4646-02	.5584-02	3.273	23.86	581.2
136	.00000	.52000	54.000	.1907	.1559	.1907	.5724-02	.4680-02	.5624-02	3.300	24.06	580.5
136	.00000	.53000	55.000	.2067	.1669	.2067	.6205-02	.5072-02	.6205-02	3.570	26.02	581.7
136	.00000	.54000	56.000	.1340-01	.1110-01	.1340-01	.4028-03	.3335-03	.4028-03	2.430	1.549	537.7
136	.00000	.55000	57.000	.1934	.1586	.1934	.5809-02	.4761-02	.5808-02	3.398	24.88	572.0
136	.00000	.56000	58.000	.2299	.1882	.2299	.6903-02	.5649-02	.6903-02	3.996	29.17	578.1
136	.00000	.57000	59.000	.1369	.1127	.1369	.4109-02	.3384-02	.4109-02	2.464	18.17	557.4
136	.00000	.58000	60.000	.1603	.1317	.1603	.4813-02	.3955-02	.4882-02	2.653	19.66	564.3
136	.00000	.59000	61.000	.1368	.1122	.1215	.4108-02	.3367-02	.3649-02	2.402	17.02	572.4

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(RV1809)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	OTMDT DEG. R /SEC	TW DEG. R
136	32.000	.50000	833.00	.1239	.1013	.1099	.3717-02	.3042-02	.3299-02	2.155	14.31	577.3
136	32.000	.70000	834.00	.1027	.8400-01	.9110-01	.3084-02	.2520-02	.2734-02	1.773	13.37	582.0
136	32.000	.80000	835.00	.1022	.8360-01	.9070-01	.3068-02	.2510-02	.2722-02	1.774	12.53	578.9
136	32.000	.90000	836.00	.1069	.8750-01	.9600-01	.3209-02	.2628-02	.2883-02	1.864	13.62	576.3
136	32.000	.95000	837.00	.1257	.1029	.1135	.3775-02	.3090-02	.3407-02	2.190	16.55	576.8
136	32.000	.97500	838.00	.1324	.1084	.1198	.3976-02	.3253-02	.3597-02	2.301	17.99	578.5
136	32.000	1.01500	839.00	.1700-01	.7130-01	.7630-01	.2612-02	.2141-02	.2691-02	1.526	12.18	573.0
136	32.000	1.0300	840.00	.9130-01	.7490-01	.8010-01	.2740-02	.2249-02	.2405-02	1.612	12.45	568.7
136	32.000	1.0450	841.00	.9390-01	.8180-01	.8750-01	.2935-02	.2457-02	.2627-02	1.759	13.34	569.6
136	32.000	1.0600	842.00	.6990-01	.7050-01	.7540-01	.2978-02	.2117-02	.2263-02	1.523	12.43	566.1
136	45.000	.82500	969.00	.4750-01	.3760-01	.4550-01	.1365-02	.1128-02	.1365-02	.8350	6.199	545.1
136	45.000	.95000	973.00	.2800-02	.2300-02	.2600-02	.8384-04	.6940-04	.8384-04	.5300-01	.3860	538.9
136	45.000	.97500	978.00	.1900-02	.1600-02	.1900-02	.5742-04	.4754-04	.5742-04	.3600-01	.2650	538.3
136	75.000	.97500	977.00	.6000-03	.7000-03	.6000-03	.6457-04	.2035-04	.2457-04	.1500-01	.1130	538.3
136	85.000	.97500	975.00	.3100-02	.2500-02	.3100-02	.9245-04	.7654-04	.9245-04	.5700-01	.4260	538.3
136	145.00	.82000	260.00	.1640-01	.1360-01	.1640-01	.4910-03	.4070-03	.4910-03	.3060	2.302	534.2
136	145.00	.86200	261.00	.6500-02	.7000-02	.6500-02	.2534-03	.2100-03	.2534-03	.1580	1.302	534.6
136	180.00	.10000-01	59.000	.5770-01	.4780-01	.5770-01	.1732-02	.1434-02	.1732-02	1.071	7.973	539.0
136	180.00	.25000-01	60.000	.1520-01	.1260-01	.1520-01	.4573-03	.3788-03	.4573-03	.2840	2.046	536.7
136	180.00	.50000-01	61.000	.1290-01	.1070-01	.1290-01	.3873-03	.3208-03	.3873-03	.2400	1.534	537.2
136	180.00	.75000-01	62.000	.2150-01	.1780-01	.2150-01	.6454-03	.5344-03	.6454-03	.3390	2.550	538.1
136	180.00	.10000+00	63.000	.2290-01	.1900-01	.2290-01	.6886-03	.5701-03	.6886-03	.4260	2.798	538.7
136	180.00	.12500	64.000	.2110-01	.1740-01	.2110-01	.6323-03	.5235-03	.6323-03	.3910	2.730	538.6
136	180.00	.15000	65.000	.2320-01	.2090-01	.2320-01	.7567-03	.6265-03	.7567-03	.4680	3.266	538.8
136	180.00	.16000	66.000	.6470-01	.5350-01	.6470-01	.1943-02	.1607-02	.1943-02	1.196	6.699	541.6
136	180.00	.17000	67.000	.8540-01	.7050-01	.8540-01	.2563-02	.2120-02	.2563-02	1.575	8.775	542.8
136	180.00	.20000	69.000	.1710-01	.1420-01	.1710-01	.5134-03	.4251-03	.5134-03	.3180	1.971	538.4
136	180.00	.40100	72.000	.5500-02	.4600-02	.5500-02	.1377-03	.1377-03	.1654-03	.1030	.8770	538.2
136	180.00	.50000	73.000	.4100-02	.3400-02	.4100-02	.1216-03	.1007-03	.1216-03	.7500-01	.6420	537.5
136	180.00	.60100	74.000	.5600-02	.4600-02	.5600-02	.1670-03	.1383-03	.1670-03	.1030	.8530	537.5
136	180.00	.70100	75.000	.7500-02	.6200-02	.7500-02	.2241-03	.1856-03	.2241-03	.1390	1.111	536.5

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1809)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 50.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
107	7.980	2.007	50.11	.0000	180.0	432.1	.4500-01	1293.	94.10	2.005	3794.	.4009-04
110	7.980	2.009	50.11	.0000	180.0	433.9	.4500-01	1296.	94.30	2.014	3798.	.4018-04
111	7.980	2.007	50.07	.0000	180.0	434.2	.4500-01	1297.	94.40	2.015	3800.	.4015-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/R FT <sup>2</sup> SEC	ST FP R =
109	.7580-07	.3474-01	.2877-01	0.0175
110	.7594-07	.3483-01	.2873-01	
111	.7604-07	.3485-01	.2875-01	

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	T-ETA	X	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/R FT <sup>2</sup> SEC	H(10) BTU/R FT <sup>2</sup> SEC	H(TAW) BTU/R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWDT DEG. R /SEC	TW DEG. R
109	.00000	.000	1.0000	.4248	.3502	.3963	.1476-01	.1217-01	.1377-01	8.969	49.65	556.1
109	.00000	.000	2.0000	.2110	.5091	.5120	.2158-01	.1759-01	.1779-01	12.69	86.98	575.6
109	.00000	.000	3.0000	.6148	.5042	.5047	.2136-01	.1752-01	.1754-01	12.59	83.70	574.5
109	.00000	.000	4.0000	.4525	.3727	.3785	.1572-01	.1295-01	.1315-01	9.491	52.43	560.2
109	.00000	.000	5.0000	.3674	.3029	.3111	.1276-01	.1052-01	.1081-01	7.752	42.90	556.5
109	.00000	.000	6.0000	.3055	.2521	.2610	.1061-01	.8751-02	.9070-02	6.485	35.96	552.9
109	.00000	.000	7.0000	.3137	.2580	.2691	.1090-01	.8555-02	.9349-02	6.528	43.61	564.9
109	.00000	.000	8.0000	.3217	.2649	.2776	.1118-01	.8203-02	.9544-02	6.739	42.53	560.9
109	.00000	.000	9.0000	.2843	.2338	.2464	.9878-02	.8123-02	.8560-02	5.913	40.73	565.2
109	.00000	.000	10.0000	.2372	.1953	.2065	.8240-02	.6785-02	.7178-02	4.569	34.30	560.9
109	.00000	.000	11.0000	.2267	.1885	.2000	.7946-02	.6552-02	.6950-02	4.828	30.54	556.3
109	.00000	.000	12.0000	.2155	.1785	.1900	.7525-02	.6203-02	.6500-02	4.569	27.34	557.7
109	.00000	.000	14.0000	.2155	.1779	.1900	.7487-02	.6180-02	.6500-02	4.571	25.34	553.5
109	.00000	.000	15.0000	.1972	.1626	.1740	.6852-02	.5650-02	.6045-02	4.165	24.27	556.1
109	.00000	.000	16.0000	.1777	.1465	.1559	.6172-02	.5091-02	.5452-02	3.758	23.79	555.0
109	.00000	.000	18.0000	.1903	.1574	.1689	.6634-02	.5467-02	.5867-02	4.021	24.71	557.8
109	.00000	.000	19.0000	.1663	.1535	.1649	.6474-02	.5333-02	.5730-02	3.913	24.72	559.4

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1809)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAX)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAX) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
109	00000	.18000	20.000	.1902	.1567	.1694	.6505-02	.5443-02	.5953-02	3.391	25.20	559.9
109	00000	.19000	21.000	.1811	.1493	.1606	.6291-02	.5186-02	.5591-02	3.816	24.13	557.3
109	00000	.20000	22.000	.1764	.1453	.1556	.6123-02	.5049-02	.5440-02	3.703	23.39	559.6
109	00000	.22500	23.000	.1656	.1355	.1474	.5755-02	.4742-02	.5121-02	3.485	22.03	558.3
109	00000	.25000	201.00	.1606	.1333	.1431	.5581-02	.4598-02	.4973-02	3.377	21.33	558.8
109	00000	.30000	202.00	.1484	.1222	.1322	.5156-02	.4247-02	.4594-02	3.112	19.65	560.3
109	00000	.35000	203.00	.1535	.1282	.1366	.5332-02	.4394-02	.4745-02	3.190	20.09	565.6
109	00000	.40000	204.00	.1470	.1208	.1308	.5107-02	.4193-02	.4545-02	3.050	19.76	566.7
109	00000	.45000	205.00	.1311	.1077	.1166	.4554-02	.3740-02	.4053-02	2.707	18.05	569.3
109	00000	.50000	206.00	.1214	.9860-01	.1079	.4217-02	.3461-02	.3749-02	2.497	17.15	571.6
109	00000	.55000	207.00	.1183	.9590-01	.1051	.4110-02	.3338-02	.3650-02	2.415	17.65	576.1
109	00000	.60000	208.00	.1117	.9150-01	.9950-01	.3880-02	.3179-02	.3446-02	2.275	16.62	577.5
109	00000	.65000	209.00	.1083	.8650-01	.9600-01	.3762-02	.3077-02	.3337-02	2.103	15.89	583.6
109	00000	.70000	210.00	.1216	.9940-01	.1079	.4225-02	.3455-02	.3747-02	2.449	18.44	584.3
109	00000	.75000	211.00	.1220	.1079	.1171	.4565-02	.3748-02	.4067-02	2.650	19.27	585.1
109	00000	.80000	212.00	.1252	.1330	.1411	.5531-02	.4516-02	.4931-02	3.182	23.11	588.6
109	00000	.85000	213.00	.1781	.1454	.1594	.6182-02	.5051-02	.5533-02	3.551	26.66	590.1
109	00000	.90000	214.00	.1366	.1506	.1754	.6831-02	.5573-02	.6127-02	3.935	27.68	587.6
109	00000	.92500	215.00	.1512	.1512	.1684	.6423-02	.5254-02	.5783-02	3.719	30.06	585.3
109	00000	.95000	216.00	.1950	.1600	.1766	.6811-02	.5559-02	.6137-02	4.394	31.54	589.7
109	00000	.97500	217.00	.2228	.1814	.2010	.7740-02	.6304-02	.6925-02	4.394	35.33	596.2
109	00000	1.0150	218.00	.1890	.1551	.1718	.6568-02	.5391-02	.5968-02	3.889	28.48	571.8
109	00000	1.0300	219.00	.1758	.1445	.1599	.6109-02	.5019-02	.5554-02	3.638	26.69	568.3
109	00000	1.0450	220.00	.1910	.1484	.1644	.6288-02	.5157-02	.5712-02	3.708	29.06	574.2
109	00000	1.0600	221.00	.1708	.1401	.1551	.5934-02	.4857-02	.5390-02	3.500	28.99	574.0
109	00000	1.0800	222.00	.5600-02	.5300-02	.6600-02	.2304-03	.1911-03	.2304-03	.1450	.8750	535.9
109	00000	1.1000	223.00	.7760-02	.6400-02	.7700-02	.2683-03	.2226-03	.2683-03	.1690	1.053	533.1
109	00000	1.1200	224.00	.1416	.1161	.1258	.4155-03	.3447-03	.4155-03	.2620	1.582	534.4
109	00000	1.1400	225.00	.1264	.1035	.122	.4392-02	.4034-02	.4370-02	2.569	22.74	574.0
109	00000	1.1600	226.00	.9960-01	.7410-01	.8040-01	.3148-02	.2575-02	.2793-02	1.830	15.99	582.7
109	00000	1.1800	227.00	.1241	.1013	.1099	.4310-02	.3520-02	.3820-02	2.484	18.05	587.6
109	00000	1.2000	228.00	.1600	.1307	.1418	.5560-02	.4540-02	.4927-02	3.202	23.26	588.0
109	00000	1.2200	229.00	.1734	.1416	.1555	.6023-02	.4920-02	.5403-02	3.474	27.05	577.1
109	00000	1.2400	230.00	.2839	.2365	.2839	.7009-02	.5782-02	.6006-01	6.160	35.94	553.9
109	00000	1.2600	231.00	.2012	.1660	.2012	.7009-02	.5782-02	.6006-01	6.160	35.94	553.9
109	00000	1.2800	232.00	.1952	.1597	.1952	.6784-02	.5548-02	.5784-02	3.938	28.67	583.4
109	00000	1.3000	233.00	.2175	.1777	.2175	.7939-02	.6484-02	.7939-02	4.577	33.26	587.4
109	00000	1.3200	234.00	.2285	.1866	.2285	.7939-02	.6484-02	.7939-02	4.577	33.26	587.4
109	00000	1.3400	235.00	.2228	.1847	.2228	.7761-02	.6431-02	.7761-02	4.863	27.14	539.5
109	00000	1.3600	236.00	.2904	.2397	.2904	.5186-03	.4347-02	.5186-03	.3270	27.03	533.8
109	00000	1.3800	237.00	.2134	.1757	.2134	.7432-02	.6119-02	.7432-02	4.488	39.16	554.6
109	00000	1.4000	238.00	.2134	.1757	.2134	.7432-02	.6119-02	.7432-02	4.488	39.16	554.6

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
105	30.000	.92500	970.00	.1694	.1554	.1894	.6580-02	.5400-02	.6580-02	3.892	28.49	572.4
109	30.000	.95000	974.00	.2309	.1890	.2309	.8024-02	.6568-02	.8024-02	4.682	34.14	580.4
109	30.000	.97500	979.00	.1425	.1176	.1425	.4950-02	.4096-02	.4950-02	3.027	22.38	552.4
110	31.500	.20000	108.00	.1508	.1242	.1508	.5252-02	.4325-02	.5252-02	3.176	31.89	551.2
109	32.000	.40000	831.00	.1592	.1308	.1592	.5531-02	.4548-02	.5531-02	3.301	22.71	567.1
109	32.000	.50000	832.00	.1365	.119	.1365	.4744-02	.3887-02	.4744-02	2.785	19.69	576.8
109	32.000	.60000	833.00	.1276	.1044	.1276	.4435-02	.3527-02	.4435-02	2.574	17.04	583.4
109	32.000	.70000	834.00	.1023	.6340-01	.9050-01	.3554-02	.2899-02	.3147-02	2.034	15.26	591.5
109	32.000	.80000	835.00	.1331	.1588	.1180	.4625-02	.3779-02	.4100-02	2.670	18.78	586.6
109	32.000	.90000	836.00	.1678	.1372	.1506	.5830-02	.4768-02	.5233-02	3.384	24.64	583.4
109	32.000	.95000	837.00	.1937	.1626	.1733	.6905-02	.5648-02	.6230-02	4.013	30.24	582.6
109	32.000	.97500	838.00	.2022	.1635	.1810	.6957-02	.5683-02	.6288-02	4.013	31.26	597.0
109	32.000	1.01500	839.00	.1661	.1456	.1456	.5773-02	.4727-02	.5557-02	3.373	26.84	579.6
109	32.000	1.03000	840.00	.1606	.1318	.1409	.5578-02	.4578-02	.4895-02	3.301	25.44	572.1
109	32.000	1.05000	841.00	.1668	.1368	.1453	.5755-02	.4754-02	.5084-02	3.423	25.92	573.1
109	32.000	1.07000	842.00	.1423	.1159	.1249	.4943-02	.4061-02	.4341-02	2.944	24.00	568.3
110	35.000	.50000-01	115.00	.1089	.9330-01	.1089	.3793-02	.3145-02	.3793-02	2.387	15.25	536.8
110	35.000	.60000	116.00	.1571	.1292	.1571	.5471-02	.4501-02	.5471-02	3.289	13.52	540.1
110	33.000	1.000+00	110.00	.9720-01	.8050-01	.9720-01	.3386-02	.2805-02	.3386-02	2.120	13.52	533.9
110	40.000	.50000-01	121.00	.6230-01	.5220-01	.6230-01	.2192-02	.1819-02	.2192-02	1.366	8.666	564.8
110	40.000	.60000	111.00	.2319	.1310	.2319	.6076-02	.6553-02	.8076-02	4.891	36.02	560.4
110	40.000	.70000	112.00	.1425	.1173	.1425	.4984-02	.4065-02	.4984-02	2.988	32.95	564.2
110	42.500	.50000-01	127.00	.7680-01	.6370-01	.7680-01	.2675-02	.2220-02	.2675-02	1.691	11.48	533.8
110	45.000	.15000	117.00	.8750-01	.7250-01	.8750-01	.3048-02	.2524-02	.3048-02	1.903	11.17	541.6
109	45.000	.92500	969.00	.4330-01	.3530-01	.4330-01	.1508-03	.1247-02	.1508-03	9.400	6.997	539.5
109	45.000	.95000	973.00	.3100-02	.2600-02	.3100-02	.1069-03	.0973-04	.1069-03	6.700-01	.5040	532.5
109	45.000	.97500	978.00	.2200-02	.1800-02	.2200-02	.7635-04	.6338-04	.7635-04	4.800-01	3610	531.7
110	51.000	.20000	118.00	.4470-01	.3700-01	.4470-01	.1557-02	.1290-02	.1557-02	9.750	6.218	539.9
110	60.000	.50000-01	131.00	.1430-01	.1180-01	.1430-01	.4955-03	.4127-03	.4955-03	3.170	2.157	527.9
110	67.500	.20000	129.00	.2750-01	.2260-01	.2750-01	.9575-03	.7941-03	.9575-03	6.030	4.492	536.7
109	75.000	.97500	977.00	.7000-03	.6000-03	.7000-03	.347-04	.1949-04	.2347-04	1.500-01	.1110	531.6
109	85.000	.97500	976.00	.2100-02	.1600-02	.2100-02	.7453-04	.6199-04	.7453-04	4.700-01	.3520	531.9
110	100.00	.40100	135.00	.2700-01	.2240-01	.2700-01	.9418-03	.7814-03	.9418-03	5.940	4.612	534.9
110	105.00	.50100	136.00	.1770-01	.1470-01	.1770-01	.6170-03	.5117-03	.6170-03	3.980	3.103	536.7
110	105.00	.60100	137.00	.1900-02	.1500-02	.1900-02	.6494-04	.5398-04	.6494-04	4.100-01	.3280	534.8
110	105.00	.70100	138.00	.2400-02	.2000-02	.2400-02	.8319-04	.6906-04	.8319-04	5.300-01	.4220	533.1
110	105.00	.80100	139.00	.2800-02	.2300-02	.2800-02	.9728-04	.8081-04	.9728-04	6.200-01	.4960	530.1
110	113.00	.60100	146.00	.3800-02	.3300-02	.3800-02	.1328-03	.1102-03	.1328-03	8.400-01	.6710	534.7
110	116.00	.60100	147.00	.3900-02	.3300-02	.3900-02	.1322-03	.1121-03	.1322-03	8.500-01	.6830	534.5
110	116.00	.75100	142.00	.4300-02	.3600-02	.4300-02	.1507-03	.1259-03	.1507-03	9.500-01	.7700	529.4
110	120.00	1.000+00	132.00	.3300-02	.2800-02	.3300-02	.1155-03	.9599-04	.1155-03	7.400-01	.4470	528.6
110	120.00	.80100	247.00	.4700-02	.3900-02	.4700-02	.1624-03	.1351-03	.1624-03	1.040	.8660	524.4
110	120.00	.82300	248.00	.5700-02	.4700-02	.5700-02	.1973-03	.1641-03	.1973-03	.1270	1.052	524.3



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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1809)

PUN NUMBER	T-ETA	X/L	T/C NO	H/HREF P=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/R FT/SEC	H(10) BTU/R FT/SEC	H(TAN) BTU/R FT/SEC	QDOT BTU/ FT/SEC	DTWOT DEG. R /SEC	TW DEG. R
110	120.00	86300	249.00	.8300-02	.6900-02	.8300-02	.2883-03	.2398-03	.2883-03	.1850	1.359	525.3
110	130.00	80300	253.00	.5700-02	.4700-02	.5700-02	.1971-03	.1640-03	.1971-03	.1270	1.019	524.0
110	130.00	82900	254.00	.6300-02	.5200-02	.6300-02	.2179-03	.1813-03	.2179-03	.1400	1.094	523.4
110	130.00	86200	255.00	.6700-02	.5600-02	.6700-02	.2346-03	.1952-03	.2346-03	.1500	1.250	524.7
110	135.00	40100	142.00	.1700-02	.1400-02	.1700-02	.5953-04	.35-04	.5953-04	.3900-01	.2950	529.4
110	135.00	50100	143.00	.2600-02	.2300-02	.2600-02	.9603-04	.7982-04	.9603-04	.6100-01	.5060	530.4
110	135.00	60100	144.00	.2500-02	.2100-02	.2500-02	.8873-04	.7370-04	.8873-04	.5600-01	.4380	531.0
110	135.00	70100	145.00	.2800-02	.2000-02	.2800-02	.8175-04	.6794-04	.8175-04	.5200-01	.4180	528.9
110	140.00	19300	87.000	.6600-02	.5500-02	.6600-02	.2299-03	.1910-03	.2299-03	.1460	1.133	529.3
110	145.00	80500	259.00	.1090-01	.9100-02	.1090-01	.3932-03	.3164-03	.3802-03	.2440	1.906	524.1
111	145.00	63300	260.00	.1550-01	.1370-01	.1550-01	.5747-03	.4780-03	.5747-03	.3680	2.789	526.5
111	145.00	60300	261.00	.9300-02	.7800-02	.9300-02	.3255-03	.2719-03	.3255-03	.2090	1.737	525.2
110	150.00	16000	86.000	.6600-02	.8000-02	.6600-02	.3333-03	.2715-03	.3333-03	.2130	1.591	529.3
110	150.00	18000	84.000	.1520-01	.1450-01	.1520-01	.6202-03	.5202-03	.6202-03	.3980	2.980	528.7
110	150.00	19000	82.000	.4000-03	.4000-03	.4000-03	.1519-04	.1261-04	.1519-04	.1000-01	.7200-01	533.7
110	155.00	16000	80.000	.1490-01	.1230-01	.1490-01	.5170-03	.4256-03	.5170-03	.3290	2.462	529.5
110	155.00	18000	83.000	.1000-03	.0000	.1000-03	.1922-05	.1579-05	.1922-05	.1000-02	9.000-02	533.7
110	160.00	19000	77.000	.1090-01	.9000-02	.1090-01	.3763-03	.3145-03	.3763-03	.2410	1.930	529.9
110	175.00	15000	81.000	.4200-01	.3490-01	.4200-01	.1464-02	.1215-02	.1464-02	.9270	6.700	532.8
110	175.00	15000	79.000	.2610-01	.2170-01	.2610-01	.9137-03	.7564-03	.9137-03	.5780	4.323	531.0
110	175.00	17500	78.000	.2700-01	.2540-01	.2700-01	.9411-03	.7816-03	.9411-03	.5980	4.323	531.0
109	180.00	10000-01	59.000	.5730-01	.4750-01	.5730-01	.1932-02	.1619-02	.1932-02	1.238	9.205	542.1
109	180.00	25000-01	60.000	.1340-01	.1110-01	.1340-01	.4932-03	.4120-03	.4932-03	.3110	2.240	538.7
109	180.00	50000-01	61.000	.2360-01	.1950-01	.2360-01	.8192-03	.6789-03	.8192-03	.2910	1.857	538.4
109	180.00	75000-01	62.000	.2410-01	.2000-01	.2410-01	.8373-03	.6940-03	.8373-03	.5120	3.272	538.3
109	180.00	10000+00	63.000	.2410-01	.2000-01	.2410-01	.8373-03	.6940-03	.8373-03	.5240	3.447	537.6
109	180.00	12500	64.000	.2410-01	.2000-01	.2410-01	.7657-03	.6356-03	.7657-03	.4810	3.358	537.1
109	180.00	15000	65.000	.2430-01	.2430-01	.2430-01	.8429-03	.6989-03	.8429-03	.5290	3.694	536.7
109	180.00	16000	66.000	.2430-01	.2430-01	.2430-01	.8429-03	.6989-03	.8429-03	1.539	9.147	540.0
109	180.00	17000	67.000	.2430-01	.2430-01	.2430-01	.8429-03	.6989-03	.8429-03	1.851	10.38	539.7
109	180.00	20000	69.000	.2430-01	.2430-01	.2430-01	.8429-03	.6989-03	.8429-03	2.334	2.334	534.1
109	180.00	40100	72.000	.2430-01	.2430-01	.2430-01	.8429-03	.6989-03	.8429-03	.1420	1.217	532.1
109	180.00	50000	73.000	.2430-01	.2430-01	.2430-01	.8429-03	.6989-03	.8429-03	.9800-01	.8360	531.8
109	180.00	60100	74.000	.2430-01	.2430-01	.2430-01	.8429-03	.6989-03	.8429-03	.9100-01	.7520	531.4
109	180.00	70100	75.000	.2430-01	.2430-01	.2430-01	.8429-03	.6989-03	.8429-03	.1000+00	.8050	531.2

AEDC VKF V41B-57A (OH-498) COLLATION DECK  
OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

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FUSELAGE

PARAMETRIC DATA

ALPHA = 50.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RHO  
SLUGS  
/FT<sup>3</sup>  
.4985-04  
.4954-04  
.4972-04

V  
FT/SEC  
3809.  
3814.  
3809.

Q  
PSIA  
2.513  
2.504  
2.506

T  
DEG. R  
94.70  
94.90  
94.60

TO  
DEG. R  
1303.  
1306.  
1303.

P  
PSIA  
.5600-01  
.5600-01  
.5600-01

PO  
PSIA  
544.6  
542.6  
543.1

PHI  
MODEL  
180.0  
180.0  
180.0

YAW  
DEG.  
.0000  
.0000  
.0000

ALPHA  
DEG.  
50.08  
50.09  
50.09

RN/L  
X10<sup>6</sup>  
2.491  
2.473  
2.485

MACH  
7.990  
7.990  
7.990

RUN  
NUMBER  
115  
116  
117

MU  
LB-SEC  
/FT<sup>2</sup>  
.7621-07  
.7639-07  
.7619-07

HREF  
BTU/R  
FT<sup>2</sup>  
3895-01  
3889-01  
3889-01

ST FR  
R =  
0.0175  
.2583-01  
.2591-01  
.2566-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/R FT <sup>2</sup> SEC	H(10) BTU/R FT <sup>2</sup> SEC	H(11) BTU/R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TM DEG. R
115	.00000	.00000	1.0000	.4280	.3534	.3995	.1667-01	.1377-01	.1556-01	10.30	57.03	555.2
115	.00000	.50000-02	2.0000	.6184	.5073	.5102	.2409-01	.1976-01	.1987-01	14.34	98.13	577.7
115	.00000	.10000-01	3.0000	.6330	.5194	.5200	.2466-01	.2023-01	.2025-01	14.70	97.60	576.9
115	.00000	.20000-01	4.0000	.4553	.3754	.3813	.1774-01	.1462-01	.1485-01	10.86	59.96	560.8
115	.00000	.30000-01	5.0000	.4538	.3003	.3084	.1417-01	.1170-01	.1201-01	8.733	48.33	556.7
115	.00000	.40000-01	6.0000	.3776	.2542	.2632	.1198-01	.9902-02	.1025-01	7.429	41.19	552.9
115	.00000	.50000-01	7.0000	.3126	.2572	.2683	.1217-01	.1002-01	.1045-01	7.379	49.25	566.8
115	.00000	.60000-01	8.0000	.3203	.2640	.2766	.1248-01	.1028-01	.1077-01	7.620	48.06	562.2
115	.00000	.70000-01	9.0000	.2855	.2358	.2084	.1116-01	.9184-02	.9578-02	6.759	46.50	567.4
115	.00000	.80000-01	10.000	.2390	.1970	.1878	.9310-02	.7673-02	.8116-02	5.684	39.21	562.4
115	.00000	.90000-01	11.000	.2267	.1871	.1984	.8830-02	.7287-02	.7729-02	5.435	34.36	557.4
115	.00000	.10000+00	12.000	.2140	.1766	.1878	.8336-02	.6878-02	.7317-02	5.124	30.63	558.2
115	.00000	.12000	14.000	.2625	.2169	.2316	.1022-01	.8449-02	.9021-02	6.340	35.15	552.9
115	.00000	.13000	15.000	.1935	.1597	.1708	.7538-02	.6220-02	.6654-02	4.637	27.00	557.8
115	.00000	.14000	16.000	.1763	.1455	.1558	.6857-02	.5668-02	.6069-02	4.232	26.77	556.6
115	.00000	.15000	18.000	.1880	.1550	.1664	.7323-02	.6039-02	.6480-02	4.489	27.56	559.9
115	.00000	.17000	19.000	.1866	.1538	.1652	.7268-02	.5990-02	.6436-02	4.442	28.02	561.7

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO) BTU/ R FT2SEC	H1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
115	.00000	.18000	20.000	.1862	.1534	.1649	.7251-02	.5975-02	.6424-02	4.423	27.89	563.0
115	.00000	.19000	21.000	.1800	.1484	.1597	.7010-02	.5781-02	.6221-02	4.299	27.15	559.7
115	.00000	.20000	22.000	.1762	.1452	.1564	.6863-02	.5655-02	.6094-02	4.186	26.39	563.1
115	.00000	.22500	23.000	.1638	.1350	.1458	.6360-02	.5258-02	.5679-02	3.897	24.58	562.1
115	.00000	.25000	24.000	.1596	.1315	.1422	.6217-02	.5122-02	.5540-02	3.789	23.88	563.5
115	.00000	.30000	30.000	.1523	.1254	.1356	.5930-02	.4683-02	.5283-02	3.602	22.68	565.5
115	.00000	.35000	35.000	.1491	.1214	.1326	.5806-02	.4769-02	.5164-02	3.477	23.47	572.2
115	.00000	.40000	40.000	.1439	.1099	.1191	.5217-02	.4280-02	.4637-02	3.108	20.63	577.2
115	.00000	.45000	45.000	.1198	.9820-01	.1064	.4667-02	.3826-02	.4146-02	2.765	18.93	580.4
115	.00000	.50000	50.000	.1225	.1002	.1087	.4770-02	.3902-02	.4232-02	2.797	20.34	586.4
115	.00000	.55000	55.000	.1208	.9880-01	.1072	.4706-02	.3848-02	.4174-02	2.751	19.98	588.3
115	.00000	.60000	60.000	.1489	.1214	.1319	.5799-02	.4730-02	.5135-02	3.345	24.20	596.1
115	.00000	.65000	65.000	.2183	.1776	.1930	.8502-02	.6917-02	.7518-02	4.834	36.03	611.4
115	.00000	.70000	70.000	.2988	.2425	.2638	.1164-01	.9447-02	.1028-01	6.539	46.97	611.1
115	.00000	.75000	75.000	.3517	.2851	.3103	.1370-01	.1110-01	.1208-01	7.633	54.70	615.8
115	.00000	.80000	80.000	.3443	.2788	.3057	.1341-01	.1085-01	.1195-01	7.444	55.13	617.8
115	.00000	.85000	85.000	.3475	.2818	.3105	.1333-01	.1093-01	.1209-01	7.565	52.51	614.0
115	.00000	.90000	90.000	.3068	.2492	.2751	.1195-01	.9705-02	.1071-01	6.727	53.71	610.1
115	.00000	.95000	95.000	.2229	.1822	.2021	.1225-01	.9929-02	.1100-01	6.820	54.29	616.4
115	.00000	1.0300	103.00	.2037	.1667	.1849	.7936-02	.6425-02	.7202-02	4.660	33.89	585.7
115	.00000	1.0450	104.50	.2088	.1705	.1893	.8133-02	.6640-02	.7372-02	4.712	36.58	593.6
115	.00000	1.0600	106.00	.1880	.1535	.1704	.7324-02	.5980-02	.6638-02	4.245	34.62	593.3
115	.00000	1.0600	106.00	.6000-02	.5000-02	.6000-02	.2350-03	.1950-03	.2350-03	.1490	.9030	536.8
115	.00000	1.0600	106.00	.7300-02	.6000-02	.7300-02	.2833-03	.2351-03	.2833-03	1.800	1.117	537.9
115	.00000	1.0600	106.00	.1290-01	.1070-01	.1290-01	.5043-03	.4184-03	.5043-03	.3200	1.934	538.0
115	.00000	1.0600	106.00	.1432	.1173	.1271	.5576-02	.4567-02	.4951-02	3.289	25.66	583.1
115	.00000	1.0600	106.00	.1263	.1032	.1120	.4919-02	.4021-02	.4362-02	2.870	22.32	589.5
115	.00000	1.0600	106.00	.9670-01	.7500-01	.8570-01	.3756-02	.3075-02	.3338-02	2.185	19.00	592.8
115	.00000	1.0600	106.00	.3496	.2834	.3084	.1362-01	.1104-01	.1201-01	7.602	54.51	614.6
115	.00000	1.0600	106.00	.2972	.2821	.3059	.1355-01	.1093-01	.1195-01	6.581	49.84	613.1
115	.00000	1.0600	106.00	.2894	.2388	.2634	.1158-01	.9391-02	.1035-01	6.482	49.84	613.1
116	.00000	1.0600	106.00	.2042	.1686	.2042	.7941-02	.6559-02	.7941-02	4.921	31.14	556.0
115	.00000	.92500	92.500	.2081	.1695	.2091	.8104-02	.6601-02	.8104-02	4.638	33.48	600.7
115	.00000	.95000	95.000	.2607	.2119	.2507	.1015-01	.8252-02	.1015-01	5.741	41.31	607.5
115	.00000	.97500	97.500	.2685	.2182	.2575	.1046-01	.8497-02	.1046-01	5.909	42.51	607.8
115	.00000	.97500	97.500	.2245	.1859	.2245	.6733-02	.7231-02	.8733-02	5.492	30.55	546.8
115	.00000	.97500	97.500	.1420-01	.1180-01	.1420-01	.5540-03	.4596-03	.5540-03	.3510	45.59	538.8
115	.00000	.97500	97.500	.3012	.2485	.3012	.1171-01	.9665-02	.1171-01	7.218	45.59	559.6
116	.25.500	.15000	107.00	.2145	.1767	.2145	.8344-02	.6873-02	.8344-02	5.093	44.90	565.4

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1809)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(OTO) BTU/ R FT2SEC	H(OTO) BTU/ R FT2SEC	H(OTAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEC. R /SEC	TW DEC. R
115	30.000	.92500	970.00	.1809	.1480	.1809	.7046-02	.5765-02	.7046-02	4.132	30.04	585.4
115	30.000	.95000	974.00	.2314	.1887	.2314	.9011-02	.7348-02	.7046-02	4.132	30.04	585.4
115	30.000	.97500	979.00	.1392	.1145	.1392	.5423-02	.4462-02	.5423-02	3.281	37.54	596.9
116	31.500	.20000	108.00	.1496	.1233	.1496	.5820-02	.4798-02	.5820-02	3.567	35.78	563.0
115	32.000	.40000	831.00	.1515	.1304	.1496	.6166-02	.5078-02	.5820-02	3.567	35.78	563.0
115	32.000	.50000	832.00	.1360	.1113	.1207	.5298-02	.4344-02	.4700-02	3.105	25.33	575.4
115	32.000	.60000	833.00	.1305	.1065	.1156	.5081-02	.4148-02	.4502-02	2.944	19.39	586.8
115	32.000	.70000	834.00	.2613	.2123	.1317	.5801-02	.4719-02	.5129-02	3.296	24.57	593.6
115	32.000	.80000	835.00	.2957	.2402	.2309	.1018-01	.8268-02	.8982-02	5.740	38.94	604.8
115	32.000	.90000	836.00	.3019	.2503	.2715	.1152-01	.9357-02	.1030-01	6.500	46.74	608.6
115	32.000	.95000	837.00	.2487	.2023	.2780	.1203-01	.9748-02	.1083-01	6.703	51.47	615.6
115	32.000	1.0150	839.00	.2180	.1780	.1906	.9689-02	.7680-02	.8450-02	5.500	43.22	605.2
115	32.000	1.0300	840.00	.2221	.1812	.1941	.8491-02	.6932-02	.7425-02	4.920	37.53	593.5
115	32.000	1.0450	841.00	.1732	.1417	.1516	.8650-02	.7058-02	.7551-02	4.999	37.44	595.0
115	32.000	1.0600	842.00	.1587	.1306	.1587	.6747-02	.5518-02	.5907-02	3.948	31.87	587.7
115	32.000	1.0750	843.00	.1456	.1199	.1456	.4197-02	.3480-02	.4197-02	3.751	37.53	567.9
115	32.000	1.0900	844.00	.1306	.1079	.1587	.6171-02	.5079-02	.6171-02	3.751	37.53	567.9
115	32.000	1.1050	845.00	.1199	.0950	.1587	.3742-02	.3102-02	.3742-02	2.371	15.11	542.2
115	32.000	1.1200	846.00	.0950	.0700	.1587	.2454-02	.2035-02	.2454-02	1.559	9.943	540.3
115	32.000	1.1350	847.00	.0700	.0450	.1587	.6325-02	.7355-02	.8925-02	5.460	40.14	564.1
115	32.000	1.1500	848.00	.0450	.0200	.1587	.5664-02	.4653-02	.5664-02	3.448	37.96	567.1
115	32.000	1.1650	849.00	.0200	.0000	.1587	.2938-02	.2436-02	.2938-02	1.863	12.59	541.5
115	32.000	1.1800	850.00	.0000	.0000	.1587	.3473-02	.2879-02	.3473-02	2.198	12.30	542.7
115	32.000	1.1950	851.00	.0000	.0000	.1587	.1996-02	.1650-02	.1996-02	1.242	9.197	550.5
115	32.000	1.2100	852.00	.0000	.0000	.1587	.1290-03	.1069-03	.1290-03	1.242	9.197	550.5
115	32.000	1.2250	853.00	.0000	.0000	.1587	.9352-04	.7750-04	.9352-04	5.900-01	4.380	542.7
115	32.000	1.2400	854.00	.0000	.0000	.1587	.1723-02	.1429-02	.1723-02	1.094	6.972	541.1
115	32.000	1.2550	855.00	.0000	.0000	.1587	.5505-03	.4573-03	.5505-03	3.530	2.391	535.2
115	32.000	1.2700	856.00	.0000	.0000	.1587	.1048-02	.8691-03	.1048-02	6.660	4.956	540.1
115	32.000	1.2850	857.00	.0000	.0000	.1587	.2948-04	.2443-04	.2948-04	1.900-01	1.380	542.7
115	32.000	1.3000	858.00	.0000	.0000	.1587	.6853-04	.5679-04	.6853-04	4.300-01	3.210	542.7
115	32.000	1.3150	859.00	.0000	.0000	.1587	.1034-02	.8571-03	.1034-02	6.530	5.039	544.3
115	32.000	1.3300	860.00	.0000	.0000	.1587	.7594-03	.6621-03	.7594-03	4.001	4.001	546.0
115	32.000	1.3450	861.00	.0000	.0000	.1587	.9611-04	.7963-04	.9611-04	6.100-01	4.830	544.4
115	32.000	1.3600	862.00	.0000	.0000	.1587	.7302-04	.6052-04	.7302-04	4.600-01	3.680	543.2
115	32.000	1.3750	863.00	.0000	.0000	.1587	.1260-03	.1045-03	.1260-03	8.000-01	6.370	541.5
115	32.000	1.3900	864.00	.0000	.0000	.1587	.1677-03	.1389-03	.1677-03	1.060	.8420	544.6
115	32.000	1.4050	865.00	.0000	.0000	.1587	.1278-03	.1059-03	.1278-03	8.100-01	6.410	544.5
115	32.000	1.4200	866.00	.0000	.0000	.1587	.4477-05	.3712-05	.4477-05	3.000-02	2.300-01	542.3
115	32.000	1.4350	867.00	.0000	.0000	.1587	.1073-03	.8916-04	.1073-03	6.900-01	4.160	535.1
115	32.000	1.4500	868.00	.0000	.0000	.1587	.1862-03	.1545-03	.1862-03	1.190	.9760	539.2
115	32.000	1.4650	869.00	.0000	.0000	.1587	.2524-03	.2094-03	.2524-03	1.610	1.325	538.7

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1809)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=C.9	H/HREF R=1.0	H/HREF (TAW)	H(OTO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
116	120.00	.86200	249.00	.8700-02	.7200-02	.8700-02	.3358-03	.2796-03	.3358-03	.2150	1.564	537.7
116	130.00	.80500	253.00	.5300-02	.4400-02	.5300-02	.2068-03	.1716-03	.2068-03	.1320	1.051	539.1
116	130.00	.82900	254.00	.6100-02	.5100-02	.6100-02	.2379-03	.1975-03	.2379-03	.1520	1.175	537.9
116	130.00	.86200	255.00	.8300-02	.6800-02	.8000-02	.3294-03	.2559-03	.3294-03	.1930	1.629	537.4
116	135.00	.40100	142.00	.1400-02	.1100-02	.1400-02	.5269-04	.4371-04	.5269-04	.3400-01	.2590	539.3
116	135.00	.50100	143.00	.3500-02	.2900-02	.3500-02	.1332-03	.1130-03	.1332-03	.6500-01	.7110	541.1
116	135.00	.60100	144.00	.4300-02	.3500-02	.4300-02	.1555-03	.1332-03	.1555-03	.1660	.8170	541.4
116	135.00	.70100	145.00	.5000-02	.4000-02	.5000-02	.1712-04	.1312-04	.1712-04	.4800-01	.3950	541.1
116	140.00	.18200	85.000	.3500-02	.2900-02	.3500-02	.1352-03	.1122-03	.1352-03	.6500-01	.6530	539.7
116	140.00	.19500	87.000	.6700-02	.5600-02	.6700-02	.2610-03	.2166-03	.2610-03	.1660	1.283	537.9
116	145.00	.80500	253.00	.9000-02	.7500-02	.9000-02	.3512-03	.2917-03	.3512-03	.2470	1.733	538.8
117	145.00	.82900	260.00	.1730-01	.1460-01	.1730-01	.6322-03	.5757-03	.6322-03	.4420	3.333	534.3
117	145.00	.86200	261.00	.9100-02	.7500-02	.9100-02	.3522-03	.2922-03	.3522-03	.2240	1.850	535.9
116	150.00	.16000	86.000	.1260-01	.1060-01	.1260-01	.4126-03	.3424-03	.4126-03	.2630	1.959	538.1
116	150.00	.18000	87.000	.1650-01	.1390-01	.1650-01	.6530-03	.5419-03	.6530-03	.4150	3.097	538.7
116	150.00	.19000	88.000	.3000-03	.2300-03	.3000-03	.1079-04	.8555-05	.1079-04	.7000-02	.5200-01	534.1
116	155.00	.16000	80.000	.1450-01	.1200-01	.1450-01	.5512-03	.4683-03	.5512-03	.3500	2.690	538.0
116	155.00	.18000	83.000	.1000-03	.1000-03	.1000-03	.3503-05	.3503-05	.3503-05	.3000-02	.2200-01	534.0
116	160.00	.18000	77.000	.1400-01	.1160-01	.1400-01	.5457-03	.4528-03	.5457-03	.3480	2.774	538.5
116	175.00	.15000	81.000	.2710-01	.2250-01	.2710-01	.1726-02	.1431-02	.1726-02	1.095	7.977	541.4
116	175.00	.17000	79.000	.2710-01	.2250-01	.2710-01	.1053-02	.8733-03	.1053-02	.6990	4.978	540.3
115	180.00	.17000	79.000	.2710-01	.2250-01	.2710-01	.1053-02	.8733-03	.1053-02	.6990	4.978	540.1
115	180.00	.19000	83.000	.1410-01	.1170-01	.1410-01	.5455-03	.4562-03	.5455-03	.3500	2.524	536.9
115	180.00	.21000	61.000	.1470-01	.1220-01	.1470-01	.5732-03	.4757-03	.5732-03	.3550	2.329	536.9
115	180.00	.23000	62.000	.2460-01	.2020-01	.2460-01	.9589-03	.7954-03	.9589-03	.6090	3.892	538.7
115	180.00	.25000	63.000	.2430-01	.2020-01	.2430-01	.9477-03	.7860-03	.9477-03	.6010	3.946	539.1
115	180.00	.27000	64.000	.2240-01	.1850-01	.2240-01	.8734-03	.7244-03	.8734-03	.5530	3.862	539.4
115	180.00	.29000	65.000	.2770-01	.2040-01	.2770-01	.9501-03	.7953-03	.9501-03	.6020	4.245	539.4
115	180.00	.31000	66.000	.7750-01	.6420-01	.7750-01	.3019-02	.2501-02	.3019-02	1.900	10.58	543.7
115	180.00	.33000	67.000	.8510-01	.7130-01	.8510-01	.3354-02	.2776-02	.3354-02	2.102	11.70	546.1
115	180.00	.35000	69.000	.1850-01	.1540-01	.1850-01	.7217-03	.5825-03	.7217-03	.4570	2.836	539.5
115	180.00	.37000	72.000	.5500-02	.4600-02	.5500-02	.1806-03	.1806-03	.1806-03	1.130	1.171	540.6
115	180.00	.39000	73.000	.4300-02	.3500-02	.4300-02	.1376-03	.1376-03	.1376-03	.1050	.8910	541.2
115	180.00	.41000	74.000	.3300-02	.3200-02	.3300-02	.1526-03	.1265-03	.1526-03	.9600-01	.7910	542.2
115	180.00	.43000	75.000	.5300-02	.4400-02	.5300-02	.2051-03	.1700-03	.2051-03	.1290	1.031	541.9

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1809)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 50.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEC.	YAW DEC.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
64	7.990	2.955	50.11	.0000	180.0	676.6	.7000-01	1344.	97.60	3.122	3868.	.6005-04
65	7.990	2.963	50.13	.0000	180.0	677.5	.7000-01	1343.	97.50	3.126	3867.	.6017-04
66	7.990	2.991	50.18	.0000	180.0	678.4	.7000-01	1336.	97.00	3.131	3856.	.6059-04

RUN NUMBER	MU	HREF BTU/ R /FT2	ST FR R =
64	.7859-07	.4365-01	0.0:75
65	.7853-07	.4367-01	.2350-01
66	.7810-07	.4366-01	.2348-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AH) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
64	.00000	.00000	1.0000	.4173	.3456	.3900	.1821-01	.1508-01	.1702-01	11.80	65.15	561.7
64	.00000	.50000-02	2.0000	.6146	.5056	.5084	.2683-01	.2207-01	.2219-01	16.71	113.9	586.7
64	.00000	.10000-01	3.0000	.6044	.4973	.4978	.2639-01	.2170-01	.2173-01	16.45	108.8	586.7
64	.00000	.20000-01	4.0000	.4491	.3714	.3771	.1960-01	.1621-01	.1646-01	12.59	69.26	567.7
64	.00000	.30000-01	5.0000	.3617	.2995	.3074	.1579-01	.1307-01	.1342-01	10.21	56.33	562.9
64	.00000	.40000-01	6.0000	.3065	.2541	.2628	.1338-01	.1109-01	.1147-01	8.708	48.14	558.7
64	.00000	.50000-01	7.0000	.3110	.2567	.2675	.1358-01	.1120-01	.1168-01	8.621	57.32	574.6
64	.00000	.60000-01	8.0000	.3178	.2627	.2750	.1387-01	.1146-01	.1200-01	8.881	56.82	569.3
64	.00000	.70000-01	9.0000	.2604	.2314	.2436	.1224-01	.1010-01	.1063-01	7.763	53.21	575.3
64	.00000	.80000-01	10.0000	.2351	.1951	.2062	.1030-01	.8517-02	.9001-02	6.599	45.36	569.3
64	.00000	.90000-01	11.0000	.2216	.1835	.1944	.9674-02	.8008-02	.8484-02	6.250	39.39	563.5
64	.00000	.10000+00	12.0000	.2153	.1790	.1903	.9442-02	.7814-02	.8304-02	6.090	36.29	564.7
64	.00200	.12000	14.0000	.1982	.1643	.1752	.8630-02	.7170-02	.7647-02	5.631	31.13	558.6
64	.00300	.13000	15.0000	.2139	.1770	.1832	.9335-02	.7727-02	.8255-02	6.029	34.99	563.8
64	.00000	.14000	16.0000	.1754	.1452	.1553	.7655-02	.6340-02	.6780-02	4.956	31.26	562.3
64	.00000	.15000	18.0000	.1857	.1544	.1655	.8148-02	.6740-02	.7223-02	5.242	32.08	566.3
64	.00000	.16000	19.0000	.1874	.1549	.1662	.8179-02	.6761-02	.7256-02	5.244	32.97	568.4

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ORIGINAL PAGE IS POOR

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## AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1809)

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(IGTO) BTU/ R FT2SEC	H(ITO) BTU/ R FT2SEC	H(ITAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
64	.00000	.18000	20.000	.1877	.1551	.1666	.8192-02	.6771-02	.7272-02	5.245	32.96	569.4
64	.00000	.19000	21.000	.1807	.1495	.1607	.7888-02	.6526-02	.7014-02	5.081	31.99	565.6
64	.00000	.20000	22.000	.1752	.1448	.1559	.7648-02	.6321-02	.6803-02	4.894	30.75	569.7
64	.00000	.22500	23.000	.1649	.1363	.1470	.7195-02	.5950-02	.6417-02	4.617	29.04	568.0
64	.00000	.25000	801.00	.1590	.1314	.1420	.6940-02	.5736-02	.6196-02	4.443	27.92	569.4
64	.00000	.30000	802.00	.1507	.1244	.1345	.6576-02	.5432-02	.5869-02	4.194	26.33	571.9
64	.00000	.35000	803.00	.1578	.1301	.1406	.6887-02	.5676-02	.6138-02	4.340	27.14	579.5
64	.00000	.40000	804.00	.1499	.1235	.1336	.6543-02	.5330-02	.5830-02	4.110	26.43	581.4
64	.00000	.45000	805.00	.1339	.1102	.1192	.5846-02	.4810-02	.5205-02	3.649	24.13	585.5
64	.00000	.50000	806.00	.1224	.1005	.1089	.5343-02	.4331-02	.4753-02	3.312	22.54	589.7
64	.00000	.55000	807.00	.1273	.1044	.1131	.5557-02	.4557-02	.4937-02	3.405	24.63	596.8
64	.00000	.60000	808.00	.1345	.1103	.1195	.5972-02	.4812-02	.5215-02	3.584	25.89	599.4
64	.00000	.65000	809.00	.1975	.1613	.1750	.8618-02	.7040-02	.7639-02	5.165	37.11	610.3
64	.00000	.70000	810.00	.2831	.2304	.2503	.1236-01	.1066-01	.1093-01	7.260	53.66	622.1
64	.00000	.75000	811.00	.3472	.2820	.3066	.1515-01	.1231-01	.1338-01	8.808	62.73	628.4
64	.00000	.80000	812.00	.3729	.3026	.3291	.1627-01	.1321-01	.1437-01	9.416	66.98	631.0
64	.00000	.85000	813.00	.3628	.2944	.3236	.1564-01	.1285-01	.1412-01	9.149	67.30	631.9
64	.00000	.90000	814.00	.3572	.2901	.3194	.1559-01	.1266-01	.1394-01	9.072	62.55	627.7
64	.00000	.92500	815.00	.3212	.2614	.2883	.1402-01	.1141-01	.1258-01	8.237	65.39	622.1
64	.00000	.95000	816.00	.3249	.2638	.2920	.1418-01	.1151-01	.1274-01	8.226	65.06	629.6
64	.00000	1.0150	818.00	.2278	.1859	.2070	.9944-02	.8160-02	.9035-02	6.114	44.26	594.8
64	.00000	1.0300	819.00	.2212	.1816	.2010	.9654-02	.7927-02	.8774-02	5.954	43.15	592.9
64	.00000	1.0450	820.00	.2264	.1854	.2055	.9882-02	.8091-02	.8869-02	5.999	46.36	602.5
64	.00000	1.0600	821.00	.2041	.1672	.1853	.8909-02	.7297-02	.8087-02	5.422	44.30	601.0
64	.00000	1.5000	83.000	.6600-02	.5500-02	.6500-02	.2885-03	.2403-03	.2895-03	.1940	1.169	538.5
64	.00000	2.0000	91.000	.8400-02	.7000-02	.8400-02	.3653-03	.3053-03	.3653-03	.2470	1.532	536.4
64	.00000	50000-01	90.000	.1210-01	.1010-01	.1210-01	.5297-03	.4413-03	.5297-03	.3550	2.146	538.6
64	.00000	.40000	823.00	.1411	.1159	.1255	.6160-02	.5059-02	.5478-02	3.805	29.57	591.8
64	.00000	.50000	824.00	.1272	.1042	.1129	.5551-02	.4548-02	.4930-02	3.383	26.17	600.3
64	.00000	.60000	825.00	.1113	.9110-01	.9880-01	.4853-02	.3976-02	.4311-02	2.939	25.40	604.9
64	.00000	.70000	826.00	.3835	.3112	.3385	.1674-01	.1358-01	.1477-01	9.680	68.84	631.3
64	.00000	.80000	827.00	.3613	.2936	.3192	.1577-01	.1282-01	.1393-01	9.191	65.52	626.8
64	.00000	.90000	828.00	.3066	.2508	.2760	.1347-01	.1095-01	.1205-01	7.850	59.95	563.9
65	.00000	10000-00	103.00	.2917	.2414	.2917	.1274-01	.1054-01	.1274-01	8.214	47.68	561.6
64	.00000	.15000	104.00	.2012	.1666	.2012	.8785-02	.7275-02	.8785-02	5.685	35.87	561.6
64	.00000	.20000	971.00	.2090	.1708	.2090	.9121-02	.7454-02	.9121-02	5.482	39.43	608.6
64	.00000	.25000	975.00	.2722	.2217	.2722	.1188-01	.9678-02	.1188-01	7.018	50.22	618.9
64	.00000	.30000	980.00	.2722	.2237	.2745	.1198-01	.9765-02	.1198-01	7.091	50.77	617.8
64	.00000	.35000	983.00	.2252	.1870	.2252	.9834-02	.8168-02	.9834-02	6.473	35.94	550.5
65	.00000	50000-01	105.00	.1360-01	.1130-01	.1360-01	.5927-03	.4940-03	.5927-03	.3990	2.475	537.2
64	.00000	.20000	93.000	.1369-01	.1130-01	.1369-01	.5927-03	.4940-03	.5927-03	.3990	2.475	537.2
65	.00000	.24.500	106.00	.2979	.2465	.2979	.1301-01	.1076-01	.1301-01	8.370	52.71	565.4
65	.00000	10000-00	107.00	.2132	.1761	.2132	.9311-02	.7688-02	.9311-02	5.925	52.05	572.4

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1809)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(OTO) BTU/ R FT2SEC	H(UTO) BTU/ R FT2SEC	H(UTAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
64	30.000	92500	970.00	.1728	.1419	.1728	.7542-02	.6194-02	.7542-02	4.656	33.76	592.2
64	30.000	95000	974.00	.2290	.1874	.2290	.9996-02	.8178-02	.9996-02	6.046	43.57	604.7
64	30.000	97500	979.00	.1592	.1316	.1592	.6950-02	.5743-02	.6950-02	4.445	32.58	570.1
65	31.500	20000	108.00	.1477	.1221	.1477	.6452-02	.5331-02	.6452-02	4.120	41.18	570.1
64	32.000	40000	831.00	.1588	.1307	.1414	.6930-02	.5707-02	.6173-02	4.346	29.68	582.5
64	32.000	50000	832.00	.1361	.1117	.1210	.5942-02	.4873-02	.5280-02	3.843	25.51	596.5
64	32.000	60000	833.00	.1469	.1202	.1303	.6412-02	.5245-02	.5688-02	3.872	25.35	605.7
64	32.000	70000	834.00	.1900	.1544	.1679	.8292-02	.6741-02	.7328-02	4.845	35.75	625.3
64	32.000	80000	835.00	.3288	.2671	.2904	.1435-01	.1166-01	.1268-01	8.354	57.61	627.4
64	32.000	90000	835.00	.3095	.2520	.2772	.1351-01	.1100-01	.1243-01	8.177	60.57	617.4
64	32.000	95000	837.00	.3163	.2578	.2848	.1381-01	.1125-01	.1243-01	8.116	61.94	628.2
64	32.000	97500	838.00	.3198	.2598	.2882	.1396-01	.1134-01	.1258-01	8.841	53.51	614.7
64	32.000	1.0150	839.00	.2635	.2149	.2302	.1150-01	.9380-02	.1005-01	6.034	45.86	600.3
64	32.000	1.0300	840.00	.2269	.1859	.1989	.9903-02	.8114-02	.6860-02	6.277	46.85	601.9
64	32.000	1.0450	841.00	.2356	.1938	.2073	.1033-01	.6459-02	.6840-02	4.804	38.68	593.1
64	32.000	1.0600	842.00	.1735	.1466	.1567	.7792-02	.6358-02	.4747-02	3.152	20.06	544.6
65	35.000	50000-01	115.00	.1087	.9040-01	.1087	.4747-02	.3948-02	.4747-02	3.152	20.06	544.6
65	35.000	20000	110.00	.1586	.1308	.1586	.6925-02	.5714-02	.6925-02	4.387	43.74	575.2
65	39.000	10000+00	116.00	.9630-01	.8180-01	.9630-01	.4295-02	.3573-02	.4235-02	2.857	18.19	543.6
65	40.000	75000-01	121.00	.6310-01	.5250-01	.6310-01	.2755-02	.2294-02	.2755-02	1.838	11.72	541.6
65	40.000	15000	111.00	.2336	.1930	.2336	.1020-01	.8429-02	.1020-01	6.513	47.74	570.3
65	40.000	20000	112.00	.1433	.1183	.1433	.6258-02	.5154-02	.6258-02	3.970	43.55	574.3
65	42.500	50000-01	127.00	.7400-01	.6150-01	.7400-01	.3230-02	.2687-02	.3230-02	2.148	14.51	543.6
65	45.000	15000	117.00	.8840-01	.7350-01	.8840-01	.3859-02	.3211-02	.3859-02	2.570	15.08	542.8
64	45.000	92500	969.00	.4940-01	.4100-01	.4940-01	.2155-02	.1791-02	.2155-02	1.421	10.52	550.2
64	45.000	95000	973.00	.3500-02	.2900-02	.3500-02	.1544-03	.1286-03	.1544-03	.1030	.7680	540.5
64	45.000	97500	978.00	.2600-02	.2200-02	.2600-02	.1141-03	.9500-04	.1141-03	.7600-01	.5690	539.6
65	51.000	20000	118.00	.4330-01	.3640-01	.4330-01	.1911-02	.1591-02	.1911-02	1.276	8.137	540.8
65	60.000	50000-01	131.00	.1390-01	.1160-01	.1390-01	.6079-03	.5067-03	.6079-03	.4090	2.772	536.0
65	67.500	20000	128.00	.2730-01	.2270-01	.2730-01	.1191-02	.9921-03	.1191-02	.7970	5.928	540.0
64	75.000	97500	977.00	.5000-03	.4000-03	.5000-03	.2197-04	.1830-04	.2197-04	.1500-01	.1100	539.7
65	85.000	97500	976.00	.1400-02	.1100-02	.1400-02	.5936-04	.4944-04	.5936-04	.4000-01	.2960	539.8
65	105.00	40100	135.00	.2660-01	.2220-01	.2660-01	.1163-02	.9683-03	.1163-02	.7760	5.995	541.6
65	105.00	50100	136.00	.2650-01	.2200-01	.2650-01	.1155-02	.9611-03	.1155-02	.7670	6.102	544.6
65	105.00	60100	137.00	.2500-02	.2100-02	.2500-02	.1113-03	.9264-04	.1113-03	.7400-01	.5910	542.1
65	105.00	70100	138.00	.2700-02	.2300-02	.2700-02	.1198-03	.9975-04	.1198-03	.8000-01	.6360	542.2
65	115.00	80000	139.00	.3000-02	.2500-02	.3000-02	.1301-03	.1083-03	.1301-03	.8700-01	.6930	540.3
65	116.00	60100	146.00	.5500-02	.4600-02	.5500-02	.2412-03	.2007-03	.2412-03	.1610	1.280	542.1
65	116.00	75100	147.00	.5000-02	.4200-02	.5000-02	.2190-03	.1823-03	.2190-03	.1460	1.164	541.6
65	116.00	10000+00	148.00	.4300-02	.3600-02	.4300-02	.1873-03	.1560-03	.1873-03	.1250	.9990	540.1
65	120.00	80500	132.00	.2700-02	.2200-02	.2700-02	.1159-03	.9664-04	.1159-03	.7800-01	.4732	534.3
65	120.00	80500	247.00	.4700-02	.3900-02	.4700-02	.2042-03	.1702-03	.2042-03	.1370	1.132	536.6
65	120.00	82900	248.00	.6300-02	.5200-02	.6300-02	.2739-03	.2283-03	.2739-03	.1840	1.520	536.3



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) OREITER FUSELAGE

(RV1809)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TA DEG. R
65	120.00	.86200	249.00	.8100-02	.6700-02	.8100-02	.3528-03	.2942-03	.3528-03	.2380	1.739	534.9
65	130.00	.80500	253.00	.4900-02	.4100-02	.4900-02	.2125-03	.1771-03	.2125-03	.1430	1.142	536.3
65	130.00	.82900	254.00	.6300-02	.5200-02	.6300-02	.2741-03	.2286-03	.2741-03	.1850	1.432	535.3
65	130.00	.86200	255.00	.7600-02	.6400-02	.7600-02	.3330-03	.2777-03	.3330-03	.2250	1.854	534.5
65	135.00	.40100	142.00	.1200-02	.1000-02	.1200-02	.5355-04	.4465-04	.5355-04	.2800	.2800	535.0
65	135.00	.50100	143.00	.3500-02	.2900-02	.3500-02	.1512-03	.1260-03	.1512-03	.1020	.8360	536.7
65	135.00	.60100	144.00	.4300-02	.3600-02	.4300-02	.1897-03	.1581-03	.1897-03	.1270	.9860	537.6
65	135.00	.70100	145.00	.2400-02	.2000-02	.2400-02	.1059-03	.8812-04	.1059-03	.7100-01	.5670	537.5
65	140.00	.18000	85.000	.5500-02	.4600-02	.5500-02	.2404-03	.2004-03	.2404-03	.1610	1.245	537.1
65	140.00	.19500	87.000	.6800-02	.5700-02	.6800-02	.2960-03	.2468-03	.2960-03	.1990	1.537	535.9
65	145.00	.80500	259.00	.7500-02	.6200-02	.7500-02	.3265-03	.2722-03	.3265-03	.2200	1.703	535.9
66	145.00	.82900	260.00	.1030-01	.6600-02	.1030-01	.4499-03	.3746-03	.4499-03	.2990	2.251	536.7
66	145.00	.86200	261.00	.9200-02	.6800-02	.9200-02	.3552-03	.2985-03	.3552-03	.2390	1.975	534.7
65	150.00	.16000	86.000	.1310-01	.1090-01	.1310-01	.5732-03	.4777-03	.5732-03	.3850	2.871	536.7
65	150.00	.18000	84.000	.1700-01	.1420-01	.1700-01	.7445-03	.6205-03	.7445-03	.5000	3.727	537.0
65	150.00	.19000	82.000	.3000-03	.3000-03	.3000-03	.1430-04	.1194-04	.1430-04	.1000-01	.7300-01	530.0
65	155.00	.16000	80.000	.1690-01	.1410-01	.1690-01	.7366-03	.6139-03	.7366-03	.4950	3.689	536.8
65	155.00	.18000	83.000	.4000-03	.3000-03	.4000-03	.1593-04	.1322-04	.1593-04	.1100-01	.8000-01	529.8
65	150.00	.18000	77.000	.9300-02	.7800-02	.9300-02	.4073-03	.3394-03	.4073-03	.2740	2.184	537.1
65	175.00	.15000	81.000	.4760-01	.3970-01	.4760-01	.2080-02	.1732-02	.2080-02	1.391	10.01	540.1
65	175.00	.16500	79.000	.2800-01	.2330-01	.2800-01	.1221-02	.1017-02	.1221-02	8.180	6.052	538.8
65	175.00	.17500	78.000	.2690-01	.2240-01	.2690-01	.1177-02	.9804-03	.1177-02	.7890	5.686	538.3
64	180.00	.10000-01	59.000	.5340-01	.4440-01	.5340-01	.2331-02	.1939-02	.2331-02	1.549	11.50	545.0
64	180.00	.25000-01	60.000	.1320-01	.1100-01	.1320-01	.5768-03	.4802-03	.5768-03	.3860	2.775	541.0
64	180.00	.50000-01	61.000	.1510-01	.1260-01	.1510-01	.6593-03	.5490-03	.6593-03	.4410	2.811	540.8
64	180.00	.75000-01	62.000	.2680-01	.2240-01	.2680-01	.1172-02	.9757-03	.1172-02	.7840	4.995	541.0
64	180.00	.10000*00	63.000	.2550-01	.2120-01	.2550-01	.1112-02	.9263-03	.1112-02	.7440	4.886	540.4
64	180.00	.12500	64.000	.2270-01	.1890-01	.2270-01	.5539-03	.8235-03	.5539-03	.5620	4.621	539.3
64	180.00	.15000	65.000	.2510-01	.2090-01	.2510-01	.1097-02	.9136-03	.1097-02	.7350	5.129	539.5
64	180.00	.16000	66.000	.8710-01	.7240-01	.8710-01	.3802-02	.3162-02	.3802-02	2.525	14.05	545.5
64	180.00	.17000	67.000	.9250-01	.7690-01	.9250-01	.4035-02	.3356-02	.4035-02	2.680	14.92	545.4
64	180.00	.20000	69.000	.1920-01	.1600-01	.1920-01	.8371-03	.6976-03	.8371-03	.5630	3.493	537.6
64	180.00	.40100	72.000	.5400-02	.4500-02	.5400-02	.2345-03	.1955-03	.2345-03	1.580	1.347	535.9
64	180.00	.50000	73.000	.4200-02	.3500-02	.4200-02	.1842-03	.1535-03	.1842-03	1.059	1.059	535.5
64	180.00	.60100	74.000	.3800-02	.3100-02	.3800-02	.1647-03	.1373-03	.1647-03	.9150	.9150	536.5
64	180.00	.70100	75.000	.6700-02	.5600-02	.6700-02	.2919-03	.2433-03	.2919-03	1.970	1.571	536.3

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 50.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
112	8.000	3.322	50.13	.0000	180.0	759.8	.7800-01	1340.	97.10	3.487	3863.	.6724-04
113	8.000	3.319	50.13	.0000	180.0	759.3	.7800-01	1340.	97.10	3.484	3863.	.6718-04
114	8.000	3.301	50.16	.0000	180.0	760.3	.7800-01	1347.	97.60	3.489	3872.	.6696-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
112	.7819-07	.4610-01	.0175	.2230-01
113	.7820-07	.4609-01	.0175	.2231-01
114	.7856-07	.4616-01	.0175	.2235-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(14H) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	QDOT DEG. R /SEC	TH DEG. R
112	.0000	.0000	1.0000	.4174	.3460	.3902	.1924-01	.1595-01	.1799-01	12.50	69.15	556.8
112	.0000	.5000-02	2.0000	.6121	.5035	.5064	.2822-01	.2321-01	.2335-01	17.54	119.7	584.5
112	.0000	.1000-01	3.0000	.6244	.5138	.5143	.2879-01	.2369-01	.2371-01	17.92	118.6	583.7
112	.0000	.2000-01	4.0000	.4544	.3760	.3817	.2095-01	.1733-01	.1760-01	13.45	74.19	564.0
112	.0000	.3000-01	5.0000	.3534	.3011	.3090	.1676-01	.1388-01	.1425-01	10.84	59.95	559.0
112	.0000	.4000-01	6.0000	.3070	.2547	.2634	.1415-01	.1174-01	.1214-01	9.231	51.15	554.0
112	.0000	.5000-01	7.0000	.3159	.2608	.2718	.1456-01	.1203-01	.1253-01	9.245	51.56	571.4
112	.0000	.6000-01	8.0000	.3201	.2546	.2771	.1476-01	.1220-01	.1277-01	9.446	59.47	566.0
112	.0000	.7000-01	9.0000	.2845	.2348	.2472	.1311-01	.1092-01	.1140-01	8.310	57.03	572.5
112	.0000	.8000-01	10.000	.2357	.1949	.2050	.1087-01	.8987-02	.9496-02	6.956	47.89	566.1
112	.0000	.9000-01	11.000	.2230	.1847	.1956	.1028-01	.8513-02	.9018-02	6.642	41.94	560.0
112	.0000	.1000-00	12.000	2.167	.1794	.1906	.9390-02	.8272-02	.8789-02	6.446	38.49	560.9
112	.0000	.12000	14.000	2.133	.1813	.1939	.1011-01	.8325-02	.8340-02	6.583	36.47	555.0
112	.0000	.13000	15.000	.1534	.1602	.1711	.8917-02	.7334-02	.7688-02	5.759	33.49	560.3
112	.0000	.14000	16.000	.1771	.1457	.1568	.8163-02	.6703-02	.7231-02	5.283	33.37	559.1
112	.0000	.15000	18.000	.1834	.1517	.1626	.8453-02	.6935-02	.7435-02	5.433	33.30	563.4
112	.0000	.17000	19.000	.1553	.1532	.1644	.8542-02	.7063-02	.7578-02	5.467	34.42	566.1

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
112	.00000	.18000	20.000	.1857	.1535	.1648	.8559-02	.7075-02	.7597-02	5.468	34.40	567.3
112	.00000	.19000	21.000	.1787	.1478	.1589	.8237-02	.6816-02	.7324-02	5.294	33.37	563.5
112	.00000	.20000	22.000	.1794	.1483	.1596	.8273-02	.6826-02	.7359-02	5.283	33.23	567.6
112	.00000	.22500	23.000	.1639	.1355	.1461	.7556-02	.6248-02	.6737-02	4.836	30.44	566.3
112	.00000	.25000	801.00	.1583	.1308	.1413	.7299-02	.6032-02	.6515-02	4.656	29.28	568.2
112	.00000	.30000	802.00	.1502	.1240	.1340	.6923-02	.5716-02	.6177-02	4.396	27.60	571.2
112	.00000	.35000	803.00	.1596	.1314	.1421	.7356-02	.6060-02	.6553-02	4.608	28.81	579.8
112	.00000	.40000	804.00	.1512	.1244	.1346	.6970-02	.5737-02	.6207-02	4.349	27.96	582.2
112	.00000	.45000	805.00	.1368	.1125	.1218	.6308-02	.5187-02	.5614-02	3.910	25.84	586.4
112	.00000	.50000	806.00	.1265	.1039	.1125	.5831-02	.4789-02	.5185-02	3.591	24.42	590.4
112	.00000	.55000	807.00	.1369	.1122	.1216	.6311-02	.5171-02	.5604-02	3.834	27.70	598.8
112	.00000	.60000	808.00	.1608	.1316	.1427	.7415-02	.6068-02	.6579-02	4.476	32.28	602.6
112	.00000	.65000	809.00	.2446	.1993	.2164	.1128-01	.9187-02	.9978-02	6.641	47.56	617.3
112	.00000	.70000	810.00	.3251	.2638	.2869	.1499-01	.1216-01	.1323-01	8.644	63.66	679.4
112	.00000	.75000	811.00	.3793	.3073	.3345	.1749-01	.1417-01	.1542-01	9.999	71.01	634.5
112	.00000	.80000	812.00	.3921	.3173	.3455	.1807-01	.1463-01	.1593-01	10.29	72.97	637.0
112	.00000	.85000	813.00	.3768	.3048	.3354	.1737-01	.1405-01	.1546-01	9.852	72.21	639.2
112	.00000	.90000	814.00	.3771	.3054	.3366	.1738-01	.1408-01	.1552-01	9.934	68.26	634.7
112	.00000	.92500	815.00	.3311	.2687	.2966	.1526-01	.1239-01	.1357-01	8.808	69.68	629.1
112	.00000	.95000	816.00	.3346	.2708	.3001	.1542-01	.1248-01	.1384-01	8.777	69.16	637.2
112	.00000	.97500	817.00	.3580	.2970	.3305	.1697-01	.1369-01	.1524-01	9.514	74.68	645.4
112	.00000	1.0150	818.00	.2376	.1946	.2156	.1095-01	.8563-02	.9340-02	6.641	47.96	599.9
112	.00000	1.0300	819.00	.2329	.1908	.2114	.1074-01	.8797-02	.9746-02	6.527	47.18	598.2
112	.00000	1.0450	820.00	.2420	.1977	.2193	.1116-01	.9113-02	.1011-01	6.669	51.39	608.4
112	.00000	1.0600	821.00	.2037	.1665	.1847	.9389-02	.7676-02	.8514-02	5.639	45.98	605.6
112	.00000	.15000	89.000	.7200-02	.6000-02	.7200-02	.3334-03	.2780-03	.3334-03	.2240	1.359	532.9
112	.00000	.20000	91.000	.9500-02	.8000-02	.9500-02	.4412-03	.3758-03	.4412-03	.2960	1.842	534.6
112	.00000	.50000-01	90.000	.8100-02	.6700-02	.8100-02	.3714-03	.3096-03	.3714-03	.2500	1.511	533.8
112	.00000	.40000	823.00	.1412	.1159	.1255	.6509-02	.5342-02	.5765-02	3.991	30.98	593.1
112	.00000	.50000	824.00	.1316	.1077	.1167	.6065-02	.4964-02	.5382-02	3.664	28.33	602.0
112	.00000	.60000	825.00	.1335	.1090	.1183	.6152-02	.5025-02	.5452-02	3.675	31.71	608.9
112	.00000	.70000	826.00	.4021	.3253	.3542	.1854-01	.1500-01	.1633-01	10.53	74.63	638.3
112	.00000	.80000	827.00	.3712	.3009	.3274	.1711-01	.1387-01	.1509-01	9.808	69.69	633.2
112	.00000	.90000	828.00	.3233	.2620	.2883	.1491-01	.1208-01	.1331-01	8.539	65.01	633.3
113	.00000	.10000-00	103.00	.2883	.2385	.2683	.1329-01	.1099-01	.1329-01	8.532	49.52	584.2
113	.00000	.15000	104.00	.2028	.1679	.2028	.9348-02	.7739-02	.9348-02	5.865	37.99	562.2
112	.00000	.20000	971.00	.2135	.1743	.2135	.9844-02	.8036-02	.9244-02	5.865	42.14	610.5
112	.00000	.25000	975.00	.2758	.2242	.2758	.1271-01	.1034-01	.1271-01	7.410	52.91	623.4
112	.00000	.30000	980.00	.2836	.2307	.2836	.1307-01	.1063-01	.1307-01	7.641	54.60	621.7
113	.00000	.40000-01	105.00	.2237	.1858	.2237	.1021-01	.8564-02	.1031-01	6.772	37.61	549.7
112	.00000	.50000	93.000	.1320-01	.1100-01	.1320-01	.6104-03	.5088-03	.6104-03	.4100	2.549	534.6
113	.00000	.60000	106.00	.3020	.2497	.3020	.1392-01	.1151-01	.1392-01	8.914	56.11	566.0
113	.00000	.70000	107.00	.2140	.1765	.2140	.9862-02	.8137-02	.9862-02	6.236	54.74	574.1

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1809)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H19TO) BTU/ R FT2SEC	H1TO) BTU/ K FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
112	30.000	.92500	370.00	.1761	.1445	.1761	.8117-02	.6650-02	.8117-02	4.974	36.04	593.5
112	30.000	.95000	974.00	.2353	.1922	.2353	.1085-01	.8861-02	.1085-01	6.490	46.69	607.8
112	30.000	.97500	979.00	.1508	.1244	.1508	.6950-02	.5734-02	.6950-02	4.389	32.10	574.7
113	31.500	.20000	108.00	.1494	.1234	.1494	.6888-02	.5687-02	.6888-02	4.373	43.68	571.5
112	32.000	.40000	831.00	.1606	.1322	.1430	.7404-02	.6093-02	.6592-02	4.613	31.50	583.1
112	32.000	.50000	832.00	.1416	.1160	.1258	.6229-02	.5350-02	.5798-02	3.969	27.76	598.3
112	32.000	.60000	833.00	.1659	.1363	.1479	.7694-02	.6283-02	.6817-02	4.590	29.99	609.6
112	32.000	.70000	834.00	.2503	.2029	.2208	.1154-01	.9353-02	.1018-01	6.616	48.65	632.8
112	32.000	.80000	835.00	.3657	.2964	.3225	.1586-01	.1365-01	.1487-01	9.658	66.41	633.3
112	32.000	.90000	836.00	.3226	.2621	.2885	.1487-01	.1208-01	.1330-01	8.625	61.49	626.3
112	32.000	.95000	837.00	.3257	.2648	.2929	.1502-01	.1221-01	.1350-01	8.750	64.63	623.5
112	32.000	.97500	838.00	.3329	.2696	.2995	.1535-01	.1243-01	.1381-01	8.763	66.66	635.2
112	32.000	1.0150	839.00	.2740	.2229	.2390	.1263-01	.1023-01	.1102-01	7.390	57.62	621.1
112	32.000	1.0300	840.00	.2351	.1930	.2066	.1088-01	.8999-02	.9525-02	6.536	49.55	605.7
112	32.000	1.0450	841.00	.2372	.1938	.2075	.1093-01	.8934-02	.9564-02	6.545	48.72	607.6
112	32.000	1.0600	842.00	.1668	.1631	.1631	.8614-02	.7058-02	.7549-02	5.235	42.04	598.4
113	35.000	.50000-01	115.00	.1092	.9080-01	.1092	.5433-02	.4186-02	.5033-02	3.335	21.23	543.8
113	35.000	.20000	116.00	.1606	.1325	.1606	.7402-02	.6105-02	.7402-02	4.668	46.52	575.8
113	39.000	.10000-00	116.00	.9850-01	.8190-01	.9850-01	.4538-02	.3775-02	.4538-02	3.008	19.15	543.6
113	40.000	.76000-01	121.00	.6300-01	.5250-01	.6300-01	.2906-02	.2418-02	.2906-02	1.933	12.32	541.3
113	40.000	.1000	111.00	.2335	.1928	.2335	.1076-01	.6656-02	.1076-01	6.830	50.62	571.9
113	40.000	.2000	112.00	.1469	.1211	.1469	.6769-02	.5582-02	.6769-02	4.268	46.80	575.8
113	42.500	.50000-01	127.00	.7340-01	.6110-01	.7340-01	.3383-02	.2814-02	.3383-02	2.244	15.16	543.1
113	45.000	.15000	117.00	.8950-01	.7440-01	.8950-01	.4124-02	.3431-02	.4124-02	2.739	16.07	542.3
112	45.000	.92500	969.00	.5000-01	.4150-01	.5000-01	.2306-02	.1915-02	.2306-02	1.514	11.22	549.5
112	45.000	.95000	973.00	.3600-02	.3000-02	.3600-02	.1669-03	.1390-03	.1669-03	.1110	.8270	540.5
112	45.000	.97500	978.00	.2800-02	.2300-02	.2800-02	.1287-03	.1072-03	.1287-03	.8600-01	.6380	539.7
113	51.000	.20000	118.00	.4460-01	.3710-01	.4460-01	.2056-02	.1711-02	.2056-02	1.369	8.728	340.6
113	60.000	.50000-01	131.00	.1340-01	.1110-01	.1340-01	.6155-03	.5131-03	.6155-03	.4130	2.802	535.1
113	67.500	.20000	128.00	.2690-01	.2240-01	.2690-01	.1241-02	.1033-02	.1241-02	.8270	6.152	540.3
112	75.000	.97500	977.00	.6000-03	.5000-03	.6000-03	.2562-04	.2133-04	.2562-04	.1700-01	.1270	539.8
112	85.000	.97500	976.00	.1300-02	.1100-02	.1300-02	.6060-04	.5045-04	.6060-04	.4000-01	.3010	539.8
113	105.00	.40100	135.00	.2710-01	.2250-01	.2710-01	.1249-02	.1039-02	.1249-02	.8260	6.371	545.0
113	105.00	.50100	136.00	.3620-01	.3010-01	.3620-01	.1657-02	.1385-02	.1657-02	1.097	8.699	548.7
113	105.00	.60100	137.00	.3700-02	.3000-02	.3700-02	.1691-03	.1406-03	.1691-03	.1120	.8880	545.4
113	105.00	.70100	138.00	.2500-02	.2100-02	.2500-02	.1174-03	.9765-04	.1174-03	.7800-01	.6190	544.0
113	105.00	.80000	139.00	.2700-02	.2200-02	.2700-02	.1236-03	.1029-03	.1236-03	.8200-01	.6550	541.6
113	113.00	.60100	146.00	.6200-02	.5100-02	.6200-02	.2850-03	.2370-03	.2850-03	.1880	1.498	545.3
113	116.00	.60100	147.00	.5400-02	.4500-02	.5400-02	.2491-03	.2071-03	.2491-03	.1650	1.310	545.1
113	116.00	.75100	148.00	.3700-02	.3100-02	.3700-02	.1702-03	.1416-03	.1702-03	.1130	.8990	543.1
113	120.00	.10000-00	132.00	.2800-02	.2300-02	.2800-02	.1299-03	.1083-03	.1299-03	.8700-01	.5280	534.4
113	120.00	.80500	247.00	.4100-02	.3400-02	.4100-02	.1905-03	.1586-03	.1905-03	.1270	1.047	539.0
113	120.00	.82900	248.00	.5700-02	.4700-02	.5700-02	.2621-03	.2183-03	.2621-03	.1750	1.442	538.5

AEDC VKF V41B-57A (04-498) COLLATION DECK

04-498 (AEDC V41B-57A) OFB'TER FUSELAGE

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PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(970) BTU/ R FT2SEC	H(101) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
113	120.00	.86200	249.00	.7400-02	.6100-02	.7400-02	.3395-03	.2828-03	.3395-03	.2270	1.659	537.2
113	130.00	.80500	253.00	.4500-02	.3700-02	.4500-02	.2053-03	.1719-03	.2063-03	.1380	1.100	538.7
113	130.00	.82300	254.00	.5800-02	.4600-02	.5800-02	.2663-03	.2218-03	.2663-03	.1780	1.380	537.5
113	130.00	.86200	255.00	.7500-02	.6300-02	.7500-02	.3479-03	.2899-03	.3479-03	.2330	1.922	536.7
113	135.00	.40100	142.00	.1300-02	.1100-02	.1300-02	.5992-04	.4991-04	.5992-04	.4000-01	.3100	538.7
113	135.00	.50100	143.00	.4200-02	.3500-02	.4200-02	.1952-03	.1625-03	.1952-03	.1300	1.070	540.4
113	135.00	.60100	144.00	.4000-02	.3300-02	.4000-02	.1831-03	.1524-03	.1831-03	.1220	.9410	541.3
113	135.00	.70100	145.00	.2600-02	.2200-02	.2600-02	.1201-03	.9998-04	.1201-03	.8000-01	.6370	540.9
113	140.00	.18000	85.000	.1320-01	.1100-01	.1320-01	.6096-03	.5079-03	.6096-03	.4080	3.144	537.3
113	140.00	.19500	87.000	.7200-02	.6000-02	.7200-02	.3324-03	.2769-03	.3324-03	.2220	1.713	537.6
113	145.00	.80500	259.00	.5800-02	.4600-02	.5800-02	.2669-03	.2247-03	.2669-03	.1810	1.356	539.6
114	145.00	.82300	260.00	.5900-02	.4900-02	.5900-02	.2699-03	.2247-03	.2699-03	.1810	2.070	539.6
114	145.00	.86200	261.00	.6100-02	.6800-02	.6100-02	.3740-03	.3116-03	.3740-03	.2510	3.362	538.1
113	150.00	.16000	86.000	.1470-01	.1220-01	.1470-01	.6755-03	.5526-03	.6755-03	.4510	3.362	538.1
113	150.00	.16000	84.000	.1740-01	.1450-01	.1740-01	.8025-03	.6685-03	.8025-03	.5350	3.996	538.0
113	150.00	.19000	82.000	.3000-03	.7000-03	.3000-03	.1530-04	.1276-04	.1530-04	.1000-01	.7700-01	533.2
113	155.00	.16000	80.000	.1710-01	.1300-01	.1710-01	.7900-03	.6581-03	.7900-03	.5280	3.956	537.7
113	155.00	.18000	83.000	.4000-03	.3000-03	.4000-03	.1817-04	.1515-04	.1817-04	.1200-01	.9100-01	532.8
113	160.00	.18000	77.000	.9500-02	.7900-02	.9500-02	.4367-03	.3638-03	.4367-03	.2920	2.331	537.7
113	175.00	.16500	81.000	.4950-01	.4200-01	.4950-01	.2281-02	.1699-02	.2281-02	1.517	10.92	541.4
113	175.00	.17500	79.000	.2830-01	.2350-01	.2830-01	.1302-02	.1084-02	.1302-02	.8670	6.453	540.4
113	175.00	.17500	78.000	.2730-01	.2270-01	.2730-01	.1258-02	.1047-02	.1258-02	.8380	6.034	540.4
112	180.00	.10000-01	59.000	.5420-01	.4510-01	.5420-01	.2498-02	.2081-02	.2498-02	1.659	12.43	538.0
112	180.00	.25000-01	60.000	.1340-01	.1120-01	.1340-01	.6190-03	.5161-03	.6190-03	.4160	3.005	534.5
112	180.00	.50000-01	61.000	.1530-01	.1320-01	.1530-01	.7311-03	.6095-03	.7311-03	.4910	3.141	535.8
112	180.00	.75000-01	62.000	.2780-01	.2320-01	.2780-01	.1282-02	.1069-02	.1282-02	.8590	5.492	535.9
112	180.00	.10000+00	63.000	.2520-01	.2100-01	.2520-01	.1164-02	.9698-03	.1164-02	.7800	5.132	536.2
112	180.00	.12500	64.000	.2280-01	.1900-01	.2280-01	.1053-02	.8777-03	.1053-02	.7060	4.933	537.1
112	180.00	.15000	65.000	.2490-01	.2070-01	.2490-01	.1148-02	.9562-03	.1148-02	.7680	5.365	537.1
112	180.00	.16000	66.000	.8670-01	.7210-01	.8670-01	.3998-02	.3324-02	.3998-02	2.645	14.73	544.5
112	180.00	.17000	67.000	.9540-01	.7940-01	.9540-01	.4400-02	.3659-02	.4400-02	2.910	16.20	536.6
112	180.00	.20000	69.000	.1930-01	.1610-01	.1930-01	.8881-03	.7400-03	.8881-03	3.694	3.694	536.6
112	180.00	.40100	72.000	.5400-02	.4500-02	.5400-02	.2486-03	.2071-03	.2486-03	.1670	1.420	536.0
112	180.00	.50000	73.000	.4200-02	.3500-02	.4200-02	.1939-03	.1616-03	.1939-03	.1300	1.109	535.9
112	180.00	.60100	74.000	.4400-02	.3700-02	.4400-02	.2025-03	.1688-03	.2025-03	.1360	1.119	536.3
112	180.00	.70100	75.000	.7800-02	.6500-02	.7800-02	.3609-03	.3007-03	.3609-03	.2420	1.931	536.6

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) OFF-TER FUSELAGE

(RV1809)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 50.00 BETA = .0000 ELEVIR = .0000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PSIA P	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
25	8.000	3.739	50.14	.0000	180.0	.8800-01	1347.	97.60	3.956	3873.	.7587-04
26	8.000	3.735	50.14	.0000	180.0	.8800-01	1347.	97.60	3.950	3873.	.7579-04
27	8.000	3.729	50.18	.0000	180.0	.8800-01	1349.	97.80	3.954	3876.	.7573-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	ST FR R
25	.7861-07	.4915-01	0.0175
26	.7858-07	.4911-01	.2100-01
27	.7872-07	.4915-01	.2103-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
25	.00000	.00000	1.0000	.4091	.3381	.3820	.2011-01	.1662-01	.1876-01	12.90	70.86	571.2
25	.00000	.50000-02	2.0000	.6039	.4953	.4985	.2958-01	.2436-01	.2450-01	18.30	124.1	596.1
25	.00000	.10000-01	3.0000	.5915	.4856	.4861	.2907-01	.2387-01	.2289-01	17.96	118.2	595.0
25	.00000	.20000-01	4.0000	.4546	.3755	.3813	.2234-01	.1845-01	.1874-01	14.29	78.43	573.2
25	.00000	.30000-01	5.0000	.3603	.2931	.3059	.1771-01	.1465-01	.1504-01	11.43	62.91	567.3
25	.00000	.40000-01	6.0000	.3019	.2501	.2588	.1484-01	.1239-01	.1272-01	9.664	53.36	561.4
25	.00000	.50000-01	7.0000	.3148	.2594	.2704	.1547-01	.1302-01	.1329-01	9.773	64.77	581.0
25	.00000	.60000-01	8.0000	.3268	.2648	.2773	.1577-01	.1302-01	.1353-01	10.05	62.95	575.5
25	.00000	.70000-01	9.0000	.2894	.2384	.2511	.1422-01	.1172-01	.1234-01	8.950	61.19	583.6
25	.00000	.80000-01	10.0000	.2712	.1991	.2105	.1185-01	.1034-01	.1034-01	7.554	51.77	575.4
25	.00000	.90000-01	11.0000	.2233	.1847	.1957	.1093-01	.9077-02	.9619-02	7.066	44.42	569.0
25	.00000	.10000-00	12.0000	.2176	.1799	.1912	.1069-01	.8840-02	.9397-02	6.872	40.84	570.0
25	.00000	.12000	14.0000	.2164	.1792	.1911	.1054-01	.8805-02	.9395-02	6.889	37.97	565.0
25	.00000	.13000	15.0000	.1954	.1615	.1726	.9602-02	.7938-02	.8481-02	6.172	35.72	565.8
25	.00000	.14000	16.0000	.1754	.1451	.1552	.8621-02	.7130-02	.7628-02	5.555	34.93	568.4
25	.00000	.16000	18.0000	.1876	.1549	.1661	.9219-02	.7614-02	.8164-02	5.893	35.93	573.5
25	.00000	.17000	19.0000	.1867	.1541	.1654	.9177-02	.7573-02	.8131-02	5.839	36.57	576.5

INTERODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR

AEDC 'KF V41B-57A (OH-49B) COLLATION CHECK

OH-49B (AEDC V41B-57A) ORB TER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO BTU/ R FT2SEC	H10TO BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
25	.00000	.18000	20.000	.1841	.1518	.1632	.9047-02	.7463-02	.8020-02	5.742	35.93	578.0
25	.00000	.19000	21.000	.1740	.1437	.1545	.8952-02	.7061-02	.7594-02	5.458	34.22	574.5
25	.00000	.20000	22.000	.1790	.1476	.1590	.8797-02	.7256-02	.7814-02	5.578	31.90	578.6
25	.00000	.22500	23.000	.1637	.1351	.1458	.8046-02	.6638-02	.7164-02	5.110	31.98	577.6
25	.00000	.25000	801.00	.1601	.1320	.1427	.7871-02	.6490-02	.7016-02	4.983	31.15	579.7
25	.00000	.30000	802.00	.1546	.1273	.1377	.7597-02	.6259-02	.6789-02	4.789	29.90	582.3
25	.00000	.35000	803.00	.1598	.1313	.1422	.7855-02	.6455-02	.6987-02	4.608	29.45	593.8
25	.00000	.40000	804.00	.1515	.1244	.1347	.7445-02	.6114-02	.6650-02	4.882	30.35	591.2
25	.00000	.45000	805.00	.1387	.1138	.1233	.6815-02	.5592-02	.6058-02	4.146	27.52	598.5
25	.00000	.50000	806.00	.1393	.1133	.1226	.6800-02	.5569-02	.6035-02	4.188	28.03	602.9
25	.00000	.55000	807.00	.1579	.1290	.1400	.7763-02	.6340-02	.6879-02	4.661	33.46	612.3
25	.00000	.60000	808.00	.2081	.1695	.1842	.1023-01	.8337-02	.9052-02	6.081	43.53	618.0
25	.00000	.65000	809.00	.2981	.2416	.2629	.1465-01	.1188-01	.1295-01	8.443	59.90	636.5
25	.00000	.70000	810.00	.3537	.2936	.3195	.1788-01	.1443-01	.1573-01	10.07	73.43	649.2
25	.00000	.75000	811.00	.3952	.3183	.3472	.1942-01	.1565-01	.1707-01	10.65	76.29	654.3
25	.00000	.80000	812.00	.4081	.3284	.3583	.2006-01	.1614-01	.1761-01	11.13	78.13	658.0
25	.00000	.85000	813.00	.3918	.3147	.3477	.1826-01	.1547-01	.1707-01	10.60	76.84	662.2
25	.00000	.90000	814.00	.3910	.3148	.3476	.1932-01	.1547-01	.1710-01	10.69	72.69	656.5
25	.00000	.92500	815.00	.3465	.2795	.3095	.1703-01	.1374-01	.1523-01	9.579	75.02	650.3
25	.00000	.95000	816.00	.3465	.2788	.3095	.1704-01	.1370-01	.1523-01	9.437	73.60	658.8
25	.00000	.97500	817.00	.3379	.2989	.3337	.1833-01	.1469-01	.1640-01	9.979	77.47	668.2
25	.00000	1.0150	818.00	.2564	.2090	.2332	.1260-01	.1037-01	.1141-01	7.487	53.58	618.7
25	.00000	1.0300	819.00	.2421	.1976	.2193	.1190-01	.9712-02	.1078-01	7.115	51.02	614.7
25	.00000	1.0450	820.00	.2452	.1994	.2217	.1205-01	.9800-02	.1090-01	7.069	54.01	626.1
25	.00000	1.0600	821.00	.2141	.1743	.1937	.1052-01	.8567-02	.9532-02	6.205	50.16	623.1
25	.00000	1.0800	822.00	.6000-02	.5500-02	.6000-02	.3266-03	.2722-03	.3266-03	.2200	1.329	538.7
25	.00000	1.1000	823.00	.1070-01	.8300-02	.1070-01	.5240-03	.4355-03	.5240-03	.3520	2.185	540.1
25	.00000	1.1100	824.00	.1110-01	.8300-02	.1110-01	.5451-03	.4541-03	.5451-03	.3560	2.210	540.5
25	.00000	1.1200	825.00	.1423	.1164	.1262	.6994-02	.5722-02	.6204-02	4.239	32.69	606.6
25	.00000	1.1300	826.00	.1437	.1172	.1272	.7063-02	.5760-02	.6254-02	4.207	32.28	617.0
25	.00000	1.1400	827.00	.1761	.1431	.1555	.8553-02	.7033-02	.7645-02	5.063	43.28	627.6
25	.00000	1.1500	828.00	.4141	.3332	.3636	.2036-01	.1638-01	.1787-01	11.29	79.26	658.1
25	.00000	1.1600	829.00	.3891	.3134	.3418	.1912-01	.1540-01	.1680-01	10.66	74.96	655.2
25	.00000	1.1700	830.00	.3359	.2706	.2990	.1651-01	.1330-01	.1469-01	9.215	69.44	654.6
25	.00000	1.1800	831.00	.3038	.2500	.2774	.1323-01	.1229-01	.1363-01	8.570	72.49	649.9
25	.00000	1.1900	832.00	.2894	.2395	.2690	.1421-01	.1176-01	.1421-01	9.181	53.23	566.3
25	.00000	1.2000	833.00	.2009	.1663	.2005	.9668-02	.8167-02	.8863-02	6.381	40.18	565.6
25	.00000	1.2100	834.00	.2125	.1728	.2125	.1044-01	.8494-02	.1044-01	6.128	43.70	626.0
25	.00000	1.2200	835.00	.2783	.2251	.2783	.1368-01	.1107-01	.1368-01	7.805	55.22	642.1
25	.00000	1.2300	836.00	.2835	.2296	.2835	.1394-01	.1129-01	.1394-01	7.995	56.65	639.1
25	.00000	1.2400	837.00	.2234	.1856	.2234	.1097-01	.9115-02	.1097-01	7.256	40.27	550.9
25	.00000	1.2500	838.00	.1300-01	.1090-01	.1300-01	.6403-03	.5333-03	.6403-03	4.300	2.667	540.7
25	.00000	1.2600	839.00	.2943	.2434	.2943	.1445-01	.1195-01	.1445-01	9.315	58.59	567.7

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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(RV1809)

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ SEC	DTWDT DEG. R /SEC	TW DEG. R
26	25.500	.15000	107.00	.2151	.1774	.2151	.1056-01	.8714-02	.1056-01	6.710	58.82	576.9
25	30.000	.92500	970.00	.1717	.1405	.1717	.8440-02	.6905-02	.8440-02	5.114	36.81	606.7
25	30.000	.95000	974.00	.2341	.1905	.2341	.1150-01	.9362-02	.1150-01	5.114	48.34	624.0
25	30.000	.97500	979.00	.1594	.1312	.1594	.7833-02	.6446-02	.7833-02	4.905	35.66	586.5
26	31.500	.20000	108.00	.1492	.1231	.1492	.7325-02	.6045-02	.7325-02	4.661	46.45	575.9
25	32.000	.40000	831.00	.1600	.1313	.1422	.7863-02	.6454-02	.6990-02	4.855	32.94	595.3
25	32.000	.50000	832.00	.1504	.1228	.1332	.7391-02	.6036-02	.6549-02	4.435	30.80	612.7
25	32.000	.60000	833.00	.2104	.1710	.1859	.1034-01	.8407-02	.9137-02	6.061	39.28	626.5
25	32.000	.70000	834.00	.3248	.2617	.2854	.1596-01	.1287-01	.1403-01	8.935	65.06	652.9
25	32.000	.80000	835.00	.3878	.3125	.3408	.1906-01	.1536-01	.1675-01	10.65	72.51	653.9
25	32.000	.90000	836.00	.3306	.2671	.2947	.1625-01	.1313-01	.1449-01	9.211	65.06	645.8
25	32.000	.95000	837.00	.3352	.2711	.3006	.1648-01	.1333-01	.1477-01	9.389	68.69	642.9
25	32.000	.97500	838.00	.2465	.2791	.3108	.1703-01	.1372-01	.1528-01	9.499	71.57	654.9
25	32.000	1.015	839.00	.2826	.2288	.2456	.1389-01	.1124-01	.1207-01	7.961	61.52	639.5
25	32.000	1.0300	840.00	.2429	.1977	.2119	.1194-01	.9719-02	.1042-01	7.047	52.99	622.3
25	32.000	1.0450	841.00	.2469	.2009	.2153	.1213-01	.9873-02	.1058-01	7.138	52.69	624.4
25	32.000	1.0600	842.00	.1916	.1564	.1675	.9417-02	.7687-02	.8232-02	5.637	44.92	614.1
26	35.000	.50000-01	115.00	.1082	.9000-01	.1082	.5312-02	.4419-02	.5312-02	3.541	22.52	545.6
26	35.000	.20000	110.00	.1605	.1322	.1605	.7682-02	.6494-02	.7682-02	4.970	49.39	581.6
26	39.000	.10000-00	116.00	.9520-01	.7920-01	.9520-01	.4674-02	.3889-02	.4674-02	3.117	19.83	543.1
26	40.000	.75000-01	121.00	.6220-01	.5170-01	.6220-01	.3053-02	.2541-02	.3053-02	2.043	13.01	574.1
26	40.000	.15000	111.00	.2351	.1949	.2351	.1160-01	.9574-02	.1160-01	7.398	54.12	574.1
26	40.000	.20000	112.00	.1452	.1197	.1452	.7129-02	.5877-02	.7129-02	4.505	49.28	547.7
26	42.500	.50000-01	127.00	.7470-01	.6220-01	.7470-01	.3669-02	.3054-02	.3669-02	2.455	16.58	543.2
26	45.000	.15000	117.00	.8810-01	.7330-01	.8810-01	.4325-02	.3599-02	.4325-02	2.886	16.91	545.0
25	45.000	.92500	969.00	.5140-01	.4260-01	.5140-01	.2524-02	.2093-02	.2524-02	1.651	12.17	558.7
25	45.000	.95000	973.00	.3900-02	.3200-02	.3900-02	.1912-03	.1590-03	.1912-03	1.270	.9420	548.2
25	45.000	.97500	978.00	.3200-02	.2600-02	.3200-02	.1562-03	.1299-03	.1562-03	1.040	.7700	547.7
26	51.000	.20000	118.00	.4280-01	.3563-01	.4280-01	.2099-02	.1747-02	.2099-02	1.401	8.914	544.9
26	60.000	.50000-01	131.00	.1320-01	.1100-01	.1320-01	.6501-03	.5420-03	.6501-03	4.390	2.975	536.9
26	67.500	.20000	128.00	.2710-01	.2250-01	.2710-01	.1330-02	.1107-02	.1330-02	.8900	6.609	543.5
25	75.000	.97500	977.00	.3000-03	.3000-03	.3000-03	.1536-04	.1277-04	.1536-04	1.000-01	.7600-01	547.7
25	85.000	.40100	976.00	.7000-03	.5000-03	.7000-03	.3199-04	.2660-04	.3199-04	2.100-01	.1580	547.3
26	105.00	.50100	135.00	.2740-01	.2280-01	.2740-01	.1348-02	.1121-02	.1348-02	.8970	6.909	546.7
26	105.00	.60100	136.00	.5030-01	.4180-01	.5030-01	.2470-02	.2050-02	.2470-02	1.627	12.87	553.6
26	105.00	.70100	137.00	.4000-02	.3400-02	.4000-02	.1987-03	.1652-03	.1987-03	1.320	1.046	548.8
26	105.00	.80000	138.00	.2600-02	.2200-02	.2600-02	.1294-03	.1076-03	.1294-03	.8600-01	.6840	547.1
26	105.00	.90000	139.00	.2600-02	.2200-02	.2600-02	.1271-03	.1058-03	.1271-03	.8500-01	.6760	544.0
26	113.00	.60100	146.00	.7300-02	.6100-02	.7300-02	.3576-03	.2973-03	.3576-03	.2370	1.383	548.6
26	116.00	.60100	147.00	.5800-02	.4800-02	.5800-02	.2840-03	.2361-03	.2840-03	1.880	1.495	544.7
26	116.00	.75100	148.00	.2200-02	.1800-02	.2200-02	.1065-03	.8862-04	.1065-03	.7100-01	.5650	544.6
26	120.00	.10000-00	132.00	.2800-02	.2400-02	.2800-02	.1386-03	.1156-03	.1386-03	.9400-01	.5670	535.9
26	120.00	.80500	247.00	.4200-02	.3500-02	.4200-02	.2087-03	.1739-03	.2087-03	1.400	1.156	539.6



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B09)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
26	120.00	.82900	249.00	.5700-02	.4700-02	.5700-02	.2792-03	.2326-03	.2792-03	.1880	1.547	539.2
26	120.00	.86200	249.00	.7300-02	.6100-02	.7300-02	.3609-03	.3009-03	.3609-03	.2440	1.778	537.5
26	130.00	.80500	253.00	.3900-02	.3200-02	.3900-02	.1897-03	.1580-03	.1897-03	.1280	1.018	539.3
26	130.00	.82900	254.00	.4900-02	.4100-02	.4900-02	.2424-03	.2020-03	.2424-03	.1630	1.265	537.9
26	130.00	.86200	255.00	.7000-02	.5800-02	.7000-02	.3432-03	.2861-03	.3432-03	.2320	1.911	537.0
26	130.00	.96300	256.00	.1110-01	.9300-02	.1110-01	.5454-03	.4549-03	.5454-03	.3690	3.377	534.8
26	135.00	.40100	142.00	.1300-02	.1100-02	.1300-02	.6358-04	.5305-04	.6358-04	.4300-01	.3320	538.7
26	135.00	.50100	143.00	.4600-02	.3800-02	.4600-02	.2283-03	.1886-03	.2283-03	.1520	1.249	541.8
26	135.00	.60100	144.00	.4600-02	.3900-02	.4600-02	.2283-03	.1901-03	.2283-03	.1530	1.181	542.5
26	135.00	.70100	145.00	.2800-02	.2400-02	.2800-02	.1388-03	.1154-03	.1388-03	.9300-01	.7400	542.0
26	140.00	.85000	85.000	.6500-02	.5500-02	.6500-02	.3215-03	.2679-03	.3215-03	.2160	1.666	539.3
26	140.00	.19500	87.000	.7600-02	.6300-02	.7600-02	.3726-03	.3105-03	.3726-03	.2510	1.934	538.5
26	145.00	.80500	259.00	.4100-02	.3400-02	.4100-02	.2001-03	.1668-03	.2001-03	.1350	1.043	538.6
26	145.00	.82900	260.00	.7900-02	.6600-02	.7900-02	.3693-03	.3245-03	.3693-03	.2630	1.977	538.3
27	145.00	.86200	261.00	.7900-02	.6500-02	.7900-02	.3693-03	.3213-03	.3693-03	.2610	2.156	536.1
26	150.00	.16000	86.000	.1590-01	.1330-01	.1590-01	.7827-03	.6521-03	.7827-03	.5270	3.921	539.3
26	150.00	.18000	84.000	.1670-01	.1400-01	.1670-01	.8225-03	.6854-03	.8225-03	.5540	4.124	538.8
26	150.00	.19000	82.000	.3000-03	.3000-03	.3000-03	.1629-04	.1358-04	.1629-04	.1100-01	.8200-01	538.2
26	155.00	.16000	80.000	.1720-01	.1430-01	.1720-01	.8455-03	.7045-03	.8455-03	.5690	4.238	538.9
26	160.00	.18000	83.000	.2000-03	.2000-03	.2000-03	.1174-04	.9785-03	.1174-04	.8000-02	.5900-01	538.3
26	160.00	.18000	77.000	.1180-01	.9900-02	.1180-01	.5811-03	.4841-02	.5811-03	.3910	3.119	539.3
26	175.00	.15000	81.000	.5150-01	.4200-01	.5150-01	.2531-02	.2107-02	.2531-02	.1694	12.18	543.0
26	175.00	.16500	79.000	.2730-01	.2270-01	.2730-01	.1341-02	.1117-02	.1341-02	.9000	6.689	541.4
26	175.00	.17500	78.000	.2650-01	.2210-01	.2650-01	.1303-02	.1085-02	.1303-02	.8740	6.294	541.0
25	180.00	.10000-01	59.000	.5240-01	.4360-01	.5240-01	.2574-02	.2143-02	.2574-02	.1721	12.78	544.0
25	180.00	.25000-01	60.000	.1720-01	.1430-01	.1720-01	.6528-03	.5439-03	.6528-03	.4390	3.166	539.4
25	180.00	.50000-01	61.000	.1330-01	.1100-01	.1330-01	.8438-03	.7030-03	.8438-03	.5670	3.618	540.4
25	180.00	.75000-01	62.000	.2780-01	.2310-01	.2780-01	.1355-02	.1137-02	.1355-02	.9160	5.839	541.5
25	180.00	.10000+00	63.000	.2570-01	.2140-01	.2570-01	.1266-02	.1054-02	.1266-02	.8490	5.572	541.6
25	180.00	.12500	64.000	.2230-01	.1850-01	.2230-01	.1095-02	.9117-03	.1095-02	.7340	5.118	541.9
25	180.00	.15000	65.000	.2630-01	.2190-01	.2630-01	.1292-02	.1075-02	.1292-02	.8650	6.024	543.0
25	180.00	.16000	66.000	.9020-01	.7490-01	.9020-01	.4431-02	.3682-02	.4431-02	2.932	16.27	551.0
25	180.00	.17000	67.000	.9930-01	.8170-01	.9930-01	.4633-02	.4015-02	.4633-02	3.201	17.78	550.1
25	180.00	.20000	69.000	.1910-01	.1590-01	.1910-01	.9367-03	.7793-03	.9367-03	.6260	3.889	542.4
25	180.00	.40100	72.000	.5100-02	.4200-02	.5100-02	.2498-03	.2080-03	.2498-03	.1670	1.423	542.2
25	180.00	.50000	73.000	.3900-02	.3200-02	.3900-02	.1914-03	.1593-03	.1914-03	.1280	1.089	542.8
25	180.00	.60100	74.000	.5000-02	.4200-02	.5000-02	.2453-03	.2041-03	.2453-03	.1640	1.347	543.8
25	180.00	.70100	75.000	.7100-02	.5900-02	.7100-02	.3508-03	.2919-03	.3508-03	.2340	1.865	544.3

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AEDC VVF V41B-57A (OH-49B) COLL TION DECK

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## FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPD BRK = .0000  
 BOFLAP = 5.000 MACH = 8.000

(RV1810)

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.5 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q -JIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
193	7.900	.5087	20.04	.0000	180.0	103.5	.1200-01	1268.	94.00	.5020	3754.	.1026-04
194	7.900	.5308	20.04	.0000	180.0	108.1	.1200-01	1269.	94.10	.5250	3755.	.1071-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	T FR R =
193	.7571-07	.1733-01	.5676-01	0.0175
194	.7576-07	.1772-01	.5556-01	

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(TAW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWDT DEG. R /SEC	TW DEG. R
193	.00000	.00000	1.0000	.9065	.7416	.7585	.1571-01	.1285-01	.1315-01	8.956	49.21	571.1
193	.00000	.50000-02	2.0000	.7432	.6121	.6261	.1298-01	.1061-01	.1085-01	7.355	50.42	574.7
193	.00000	.10000-01	3.0000	.5779	.4739	.5052	.1002-01	.8214-02	.8756-02	5.788	38.70	563.3
193	.00000	.30000-01	5.0000	.2330	.1922	.2194	.4039-02	.3331-02	.3803-02	2.409	13.41	544.6
193	.00000	.40000-01	6.0000	.1866	.1540	.1783	.3235-02	.2669-02	.3091-02	1.937	10.80	542.3
193	.00000	.50000-01	7.0000	.1718	.1417	.1659	.2978-02	.2455-02	.2875-02	1.774	11.97	545.5
193	.00000	.60000-01	8.0000	.1664	.1373	.1619	.2884-02	.2380-02	.2805-02	1.724	10.97	543.5
193	.00000	.70000-01	9.0000	.1386	.1143	.1359	.2403-02	.1982-02	.2355-02	1.435	9.531	543.9
193	.00000	.80000-01	10.000	.1115	.0900-01	.1099	.1932-02	.1595-02	.1905-02	1.157	8.064	542.2
193	.00000	.90000-01	11.000	.1018	.8400-01	.1007	.1761-02	.1457-02	.1746-02	1.060	6.757	540.4
193	.00000	.10000+03	12.000	.9020-01	.7450-01	.8950-01	.1563-02	.1290-02	.1552-02	.9400	5.670	539.8
193	.00000	.13000	14.000	.5780-01	.4780-01	.5770-01	.1002-02	.8278-03	.1000-02	.6040	3.377	537.8
193	.00000	.13000	15.000	.7320-01	.6040-01	.7320-01	.1268-02	.1048-02	.1269-02	.7640	4.490	538.8
193	.00000	.14000	16.000	.6350-01	.5250-01	.6350-01	.1101-02	.9093-03	.1102-02	.6640	4.236	538.2
193	.00000	.16000	18.000	.6500-01	.5450-01	.6620-01	.1143-02	.9447-03	.1148-02	.6890	4.277	538.3
193	.00000	.17000	19.000	.6390-01	.5280-01	.6420-01	.1107-02	.9145-03	.1112-02	.6670	4.259	538.4
193	.00000	.18000	20.000	.6420-01	.5300-01	.6460-01	.1113-02	.9192-03	.1119-02	.6710	4.281	538.3
193	.00000	.19000	21.000	.6170-01	.5100-01	.6220-01	.1070-02	.8843-03	.1077-02	.6460	4.127	537.2
193	.00000	.20000	22.000	.6020-01	.4970-01	.6070-01	.1043-02	.8616-03	.1051-02	.6290	4.015	538.0

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## AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B10)

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(1910) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
193	.00000	.22500	23.000	.5490-01	.4540-01	.5550-01	.9519-03	.7856-03	.9621-03	.5740	3.668	537.7
193	.00000	.25000	801.00	.5160-01	.4270-01	.5230-01	.8948-03	.7395-03	.9059-03	.5400	3.451	537.3
193	.00000	.30000	802.00	.4680-01	.4030-01	.4940-01	.8461-03	.6993-03	.8566-03	.5110	3.263	537.3
193	.00000	.35000	803.00	.4970-01	.4110-01	.5030-01	.8613-03	.7117-03	.8719-03	.5190	3.316	538.0
193	.00000	.40000	804.00	.4850-01	.4010-01	.4910-01	.8404-03	.6945-03	.8508-03	.5070	3.334	537.6
193	.00000	.45000	805.00	.4270-01	.3530-01	.4320-01	.7393-03	.6109-03	.7485-03	.4460	3.018	538.2
193	.00000	.50000	806.00	.3900-01	.3220-01	.3950-01	.6759-03	.5584-03	.6843-03	.4070	2.844	538.4
193	.00000	.55000	807.00	.3700-01	.3030-01	.3750-01	.6419-03	.5302-03	.6499-03	.3860	2.877	539.0
193	.00000	.60000	808.00	.3480-01	.2870-01	.3520-01	.6023-03	.4976-03	.6098-03	.3630	2.701	539.9
193	.00000	.65000	809.00	.3170-01	.2620-01	.3210-01	.5488-03	.4533-03	.5557-03	.3300	2.458	539.4
193	.00000	.70000	810.00	.3340-01	.2760-01	.3380-01	.5789-03	.4782-03	.5861-03	.3290	2.683	539.3
193	.00000	.75000	811.00	.3150-01	.2630-01	.3190-01	.5461-03	.4511-03	.5529-03	.3480	2.448	538.9
193	.00000	.80000	812.00	.3220-01	.2650-01	.3260-01	.5585-03	.4614-03	.5654-03	.3370	2.507	538.3
193	.00000	.85000	813.00	.2950-01	.2450-01	.3020-01	.5118-03	.4230-03	.5234-03	.3090	2.381	537.6
193	.00000	.90000	814.00	.2850-01	.2350-01	.2920-01	.4937-03	.4081-03	.5058-03	.2990	2.154	536.3
193	.00000	.92500	815.00	.2220-01	.1830-01	.2280-01	.3841-03	.3175-03	.3944-03	.2320	1.924	536.4
193	.00000	.95000	816.00	.2020-01	.1670-01	.2080-01	.3499-03	.2832-03	.3601-03	.2110	1.751	536.7
193	.00000	.97500	817.00	.1510-01	.1240-01	.1550-01	.2611-03	.2158-03	.2693-03	.1580	1.305	537.4
193	.00000	1.0150	818.00	.7330-02	.6500-02	.8200-02	.1371-03	.1133-03	.1418-03	.8300-01	.6160	538.3
193	.00000	1.0300	819.00	.1180-01	.9830-02	.1220-01	.2033-03	.1696-03	.2123-03	.1240	.9200	539.0
193	.00000	1.0450	820.00	.1320-01	.1090-01	.1370-01	.2291-03	.1892-03	.2370-03	.1380	1.059	539.5
193	.00000	1.0600	821.00	.1020-01	.8400-02	.1050-01	.1762-03	.1455-03	.1823-03	.1060	.8910	540.5
193	.00000	1.5000	822.00	.1860-01	.1540-01	.1860-01	.3217-03	.2661-03	.3217-03	.1950	1.180	534.8
193	.00000	2.0000	91.000	.3130-01	.2590-01	.3130-01	.5417-03	.4483-03	.5417-03	.3300	2.051	532.8
193	.00000	5.0000-01	90.000	.1010-01	.8400-02	.1010-01	.1756-03	.1453-03	.1756-03	.1070	.6470	533.0
193	.00000	.40000	823.00	.5150-01	.4250-01	.5220-01	.8931-03	.7376-03	.9042-03	.5370	4.282	539.9
193	.00000	.50000	824.00	.4660-01	.3950-01	.4720-01	.8078-03	.6669-03	.8178-03	.4850	3.863	541.0
193	.00000	.60000	825.00	.3190-01	.2630-01	.3230-01	.5526-03	.4563-03	.5595-03	.3320	2.963	540.5
193	.00000	.70000	826.00	.4090-01	.3350-01	.4140-01	.7083-03	.5850-03	.7171-03	.4260	3.170	539.7
193	.00000	.80000	827.00	.3420-01	.2810-01	.3460-01	.5928-03	.4897-03	.6002-03	.3570	2.658	538.9
193	.00000	.90000	828.00	.2700-01	.2230-01	.2760-01	.4674-03	.3864-03	.4789-03	.2820	2.256	536.8
193	.00000	.92500	971.00	.1640-01	.1360-01	.1640-01	.2847-03	.2354-03	.2847-03	.1720	1.285	535.8
193	.00000	.95000	975.00	.2840-01	.2350-01	.2840-01	.4925-03	.4070-03	.4925-03	.2970	2.216	537.3
193	.00000	.97500	980.00	.2590-01	.2220-01	.2630-01	.4664-03	.3854-03	.4664-03	.2810	2.096	537.8
193	.00000	975.00	93.000	.3350-01	.2550-01	.3080-01	.5332-03	.4412-03	.5332-03	.3240	2.016	533.4
193	.00000	.92500	970.00	.8400-02	.6900-02	.8400-02	.1454-03	.1203-03	.1454-03	.8800-01	.6590	533.9
193	.00000	.95000	974.00	.1360-01	.1130-01	.1360-01	.3363-03	.1955-03	.3363-03	.1430	1.070	534.4
193	.00000	.97500	979.00	.3400-02	.2800-02	.3400-02	.5403-04	.4883-04	.5905-04	.3600-01	.2670	534.9
193	.00000	.83100+10	831.00	.7210-01	.5960-01	.7300-01	.1250-02	.1032-02	.1250-02	.7510	5.236	540.5
193	.00000	.5930-01	832.00	.5930-01	.4890-01	.6000-01	.1028-02	.8482-03	.1040-02	.6160	4.433	541.5
193	.00000	.5650-01	833.00	.5650-01	.4340-01	.5320-01	.9110-03	.7519-03	.9223-03	.5460	3.690	541.8
193	.00000	.4080-01	834.00	.4080-01	.3370-01	.4130-01	.7074-03	.5841-03	.7162-03	.4250	3.272	540.2
193	.00000	.835.00	835.00	.3490-01	.2890-01	.3530-01	.6049-03	.4996-03	.6124-03	.3640	2.621	539.5

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B10)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9T0) BTU/ R FT2SEC	H(1T0) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
193	32.000	.90000	836.00	.2830-01	.2340-01	.2900-01	.4914-03	.4060-03	.5034-03	.2960	2.208	537.8
193	32.000	.95000	837.00	.2820-01	.2330-01	.2900-01	.4886-03	.4037-03	.5028-03	.2950	2.271	537.8
193	32.000	.97500	838.00	.3640-01	.3010-01	.3750-01	.6302-03	.5209-03	.6500-03	.3810	3.039	537.2
193	32.000	1.0150	839.00	.1660-01	.1370-01	.1660-01	.2883-03	.2382-03	.2876-03	.1740	1.411	538.7
193	32.000	1.0300	840.00	.2120-01	.1750-01	.2120-01	.3682-03	.3041-03	.3674-03	.2210	1.735	539.7
193	32.000	1.0450	841.00	.3070-01	.2530-01	.3060-01	.5315-03	.4389-03	.5303-03	.3190	2.459	540.0
193	32.000	1.0600	842.00	.2410-01	.1990-01	.2410-01	.4178-03	.3450-03	.4169-03	.2510	2.076	540.1
193	45.000	.95000	973.00	.3000-03	.2000-03	.3000-03	.4741-05	.3925-05	.4741-05	.3000-02	.2200-01	530.7
193	45.000	.97500	978.00	.5000-03	.4000-03	.5000-03	.9239-05	.7650-05	.9239-05	.6000-02	.4200-01	530.5
193	75.000	.97500	977.00	.7000-03	.6000-03	.7000-03	.1182-04	.9788-05	.1182-04	.7000-02	.5400-01	530.4
193	85.000	.97500	976.00	.3900-02	.3200-02	.3300-02	.6737-04	.5579-04	.6737-04	.4100-01	.3080	530.6
193	180.00	.10000-01	59.000	.2886	.2377	.2886	.5003-02	.4120-02	.5007-02	2.958	21.90	549.8
193	180.00	.25000-01	60.000	.9620-01	.7950-01	.9620-01	.1668-02	.1377-02	.1668-02	1.002	7.215	540.4
193	180.00	.50000-01	61.000	.4850-01	.4010-01	.4850-01	.8411-03	.6953-03	.8411-03	.5030	3.250	536.4
193	180.00	.75000-01	62.000	.2490-01	.2060-01	.2490-01	.4308-03	.3563-03	.4308-03	.2610	1.670	534.9
193	180.00	.10000+00	63.000	.1650-01	.1360-01	.1650-01	.2885-03	.2387-03	.2885-03	.1750	1.154	533.8
193	180.00	.12500	64.000	.1200-01	.9900-02	.1200-01	.2930-03	.1721-03	.2080-03	.1260	.8850	533.5
193	180.00	.15000	65.000	.7800-02	.6500-02	.7800-02	.1359-03	.1124-03	.1359-03	.8300-01	.5730	532.3
193	180.00	.16000	66.000	.1190-01	.9800-02	.1190-01	.2056-03	.1702-03	.2056-03	.1250	.7010	532.7
193	180.00	.17000	67.000	.6510-01	.5380-01	.6510-01	.1129-02	.9332-03	.1129-02	.6830	3.820	535.9
193	180.00	.20000	69.000	.2020-01	.1680-01	.2020-01	.3509-03	.2904-03	.3509-03	.2140	1.330	532.2
193	180.00	.40100	72.000	.4600-02	.3800-02	.4600-02	.7975-04	.6602-04	.7975-04	.4900-01	.4160	531.2
193	180.00	.50000	73.000	.5600-02	.4700-02	.5600-02	.9785-04	.8099-04	.9785-04	.6000-01	.5090	532.0
193	180.00	.60100	74.000	.8900-02	.7400-02	.8900-02	.1542-03	.1276-03	.1542-03	.9400-01	.7760	532.4
193	180.00	.70100	75.000	.6300-02	.5200-02	.6300-02	.1094-03	.9055-04	.1094-03	.6700-01	.5350	531.1

FUSELAGE  
PARAMETRIC DATA  
ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = 5.000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI DEG.	PC PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
199	7.940	.9949	20.00	.0000	180.0	209.0	.2200-01	1283.	94.30	.9920	3778.	.1999-04
200	7.940	1.010	20.00	.0000	180.0	211.3	.2300-01	1280.	94.00	1.003	3773.	.2027-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR	R =
199	.7593-07	.2440-01	0.0175	.4071-01
200	.7571-07	.2453-01	.4042-01	

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(1GTO) BTU/R FT2SEC	H(1TO) BTU/R FT2SEC	H(1TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
199	.00000	.00000	1.0000	.9001	.7362	.7530	.2197-01	.1797-01	.1838-01	12.66	69.33	578.5
199	.00000	.50000-02	2.0000	.7419	.6059	.6198	.1811-01	.1479-01	.1513-01	10.35	70.67	583.3
199	.00000	.10000-01	3.0000	.5646	.4635	.4939	.1378-01	.1131-01	.1205-01	8.107	54.11	586.6
199	.00000	.20000-01	4.0000	.3274	.2705	.3017	.7989-02	.6601-02	.7362-02	4.879	27.17	544.4
199	.00000	.30000-01	5.0000	.2289	.1895	.2159	.5887-02	.4624-02	.5268-02	3.444	19.23	538.7
199	.00000	.40000-01	6.0000	.1837	.1521	.1757	.4483-02	.3712-02	.4288-02	2.771	15.49	537.0
199	.00000	.50000-01	7.0000	.1650	.1365	.1594	.4026-02	.3331-02	.3891-02	2.478	16.77	539.6
199	.00000	.60000-01	8.0000	.1628	.1347	.1585	.3972-02	.3268-02	.3867-02	2.450	15.64	538.3
199	.00000	.70000-01	9.0000	.1354	.1121	.1328	.3306-02	.2736-02	.3242-02	2.037	14.22	538.7
199	.00000	.80000-01	10.000	.1086	.0900-01	.1071	.2651-02	.2195-02	.2614-02	1.643	11.49	535.2
199	.00000	.90000-01	11.000	.9770-01	.8100-01	.9570-01	.2384-02	.1976-02	.2360-02	1.484	9.501	532.6
199	.00000	.10000+00	12.000	.8790-01	.7290-01	.8730-01	.2145-02	.1779-02	.2132-02	1.337	8.099	531.8
199	.00000	.12000	14.000	.5560-01	.4610-01	.5550-01	.1356-02	.1125-02	.1354-02	.8490	4.768	528.6
199	.00000	.13000	15.000	.6940-01	.5760-01	.6940-01	.1693-02	.1405-02	.1694-02	1.057	6.241	530.6
199	.00000	.14000	16.000	.6350-01	.5270-01	.6350-01	.1584-02	.1286-02	.1553-02	.9680	6.207	530.3
199	.00000	.16000	18.000	.6430-01	.5380-01	.6510-01	.1584-02	.1314-02	.1590-02	.9890	6.165	530.3
199	.00000	.17000	19.000	.6320-01	.5250-01	.6360-01	.1543-02	.1280-02	.1551-02	.9640	6.175	530.7
199	.00000	.18000	20.000	.6310-01	.5240-01	.6350-01	.1540-02	.1278-02	.1549-02	.9620	6.165	530.5
199	.00000	.19000	21.000	.5360-01	.4450-01	.5390-01	.1307-02	.1085-02	.1317-02	.8190	5.250	529.0

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1B10)

OH-49B (AEDC V41B-57A) OR3ITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(1GTO) BTU/ R FT2SEC	H(1GTO) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTAWT DEG. R 7SEC	TW DEG. R
199	.00000	.20000	22.000	.5810-01	.4820-01	.5860-01	.1418-02	.1176-02	.1430-02	.8860	5.678	530.4
199	.00000	.22500	23.000	.5490-01	.4530-01	.5550-01	.1340-02	.1112-02	.1354-02	.8380	5.374	529.6
199	.00000	.25000	801.00	.5230-01	.4340-01	.5290-01	.1276-02	.1055-02	.1292-02	.7990	5.122	529.4
199	.00000	.30000	802.00	.4620-01	.4000-01	.4830-01	.1177-02	.9762-03	.1191-02	.7360	4.718	529.7
199	.00000	.35000	803.00	.4590-01	.3900-01	.4640-01	.1119-02	.9283-03	.1133-02	.6990	4.477	530.8
199	.00000	.40000	804.00	.4490-01	.3730-01	.4550-01	.1097-02	.9097-03	.1110-02	.6850	4.515	531.0
199	.00000	.45000	805.00	.4460-01	.3370-01	.4110-01	.9906-03	.8215-03	.1003-02	.6170	4.195	531.7
199	.00000	.50000	806.00	.3920-01	.3170-01	.3870-01	.9331-03	.7737-03	.9446-03	.5810	4.071	532.1
199	.00000	.55000	807.00	.3740-01	.3100-01	.3790-01	.9135-03	.7574-03	.9242-03	.5690	4.246	532.8
199	.00000	.60000	808.00	.3320-01	.2750-01	.3360-01	.8098-03	.6712-03	.8166-03	.5040	3.762	532.9
199	.00000	.65000	809.00	.3020-01	.2500-01	.3050-01	.7361-03	.6102-03	.7452-03	.4590	3.418	533.2
199	.00000	.70000	810.00	.2870-01	.2390-01	.2910-01	.7011-03	.5611-03	.7098-03	.4360	3.367	533.4
199	.00000	.75000	811.00	.2610-01	.2410-01	.2940-01	.7099-03	.5865-03	.7187-03	.4420	3.297	533.1
199	.00000	.80000	812.00	.3060-01	.2540-01	.3100-01	.7469-03	.6192-03	.7561-03	.4650	3.470	533.0
199	.00000	.85000	813.00	.2850-01	.2350-01	.2920-01	.6961-03	.5771-03	.7116-03	.4330	3.348	532.7
199	.00000	.90000	814.00	.2430-01	.2070-01	.2550-01	.6080-03	.5043-03	.6227-03	.3790	2.744	531.2
199	.00000	.92500	815.00	.1930-01	.1650-01	.2050-01	.4864-03	.4035-03	.4933-03	.3040	2.524	530.4
199	.00000	.95000	816.00	.1920-01	.1590-01	.1970-01	.4683-03	.3865-03	.4817-03	.2930	2.433	530.0
199	.00000	.97500	817.00	.1550-01	.1290-01	.1600-01	.3793-03	.3146-03	.3911-03	.2370	1.967	530.7
199	.00000	1.0150	818.00	.6100-02	.5000-02	.6300-02	.1478-03	.1227-03	.1527-03	.9300-01	.6930	528.7
199	.00000	1.0300	819.00	.1130-01	.9400-02	.1170-01	.2763-03	.2293-03	.2856-03	.1730	1.295	528.9
199	.00000	1.0450	820.00	.1280-01	.1050-01	.1320-01	.3115-03	.2584-03	.3219-03	.1950	1.561	529.7
199	.00000	1.0600	821.00	.1180-01	.9800-02	.1220-01	.2876-03	.2386-03	.2973-03	.1800	1.521	530.3
199	.00000	1.15000	89.000	.1870-01	.1560-01	.1870-01	.4575-03	.3800-03	.4575-03	.2880	1.750	525.6
199	.00000	2.0000	91.000	.3260-01	.2710-01	.3260-01	.7950-03	.6603-03	.7950-03	.5000	3.122	526.1
199	.00000	5.0000-01	90.000	.2900-02	.2400-02	.2900-02	.7115-04	.5913-04	.7115-04	.4500-01	.2730	523.9
199	.00000	4.0000	823.00	.4820-01	.4000-01	.4880-01	.1177-02	.9758-03	.1192-02	.7310	5.850	533.9
199	.00000	824.00	824.00	.4620-01	.3820-01	.4740-01	.1144-02	.9474-03	.1158-02	.7090	5.666	535.2
199	.00000	825.00	825.00	.3020-01	.2500-01	.3060-01	.7377-03	.6113-03	.7468-03	.4580	4.100	534.4
199	.00000	826.00	826.00	.3170-01	.2630-01	.3200-01	.7744-03	.6417-03	.7839-03	.4810	3.589	534.2
199	.00000	827.00	827.00	.3340-01	.2770-01	.3330-01	.8163-03	.6766-03	.8263-03	.5070	3.788	533.5
199	.00000	828.00	828.00	.2490-01	.2070-01	.2550-01	.6077-03	.5040-03	.6224-03	.3790	3.033	531.7
199	.00000	925.00	971.00	.2550-01	.2120-01	.2560-01	.6249-03	.5181-03	.6249-03	.3890	2.908	532.2
199	.00000	975.00	975.00	.3780-01	.3130-01	.3780-01	.9225-03	.7648-03	.9225-03	.5740	4.288	532.7
199	.00000	990.00	990.00	.4030-01	.3340-01	.4030-01	.9842-03	.8161-03	.9942-03	.6130	4.580	532.2
199	.00000	993.00	993.00	.3550-01	.2970-01	.3580-01	.8730-03	.7250-03	.8730-03	.5490	3.427	526.4
199	.00000	994.00	994.00	.1550-01	.1290-01	.1550-01	.3784-03	.3141-03	.3784-03	.2370	1.775	528.4
199	.00000	995.00	995.00	.2210-01	.1840-01	.2210-01	.5401-03	.4483-03	.5401-03	.3390	2.535	528.2
199	.00000	996.00	996.00	.1600-01	.1330-01	.1600-01	.3898-03	.3237-03	.3898-03	.2450	1.836	526.5
199	.00000	997.00	997.00	.6970-01	.5780-01	.7050-01	.1702-02	.1410-02	.1723-02	1.056	7.389	534.5
199	.00000	998.00	998.00	.5830-01	.4680-01	.5960-01	.1437-02	.1190-02	.1455-02	.8890	6.414	536.5
199	.00000	999.00	999.00	.5340-01	.4420-01	.5400-01	.1302-02	.1079-02	.1318-02	.8060	5.464	536.1
199	.00000	1000.00	1000.00	.4530-01	.3630-01	.4680-01	.1129-02	.9354-03	.1143-02	.7010	5.407	534.6

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B10)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
199	32.000	.80000	835.00	.3460-01	.2870-01	.3510-01	.8451-03	.7004-03	.8555-03	.5250	3.795	533.6
199	32.000	.90000	836.00	.2780-01	.2310-01	.2850-01	.6787-03	.5629-03	.6951-03	.4230	3.161	531.8
199	32.000	.95000	837.00	.2940-01	.2440-01	.3020-01	.7167-03	.5943-03	.7373-03	.4470	3.454	531.7
199	32.000	.97500	838.00	.2820-01	.2340-01	.2910-01	.6979-03	.5708-03	.7092-03	.4300	3.448	529.7
199	32.000	1.0150	839.00	.1550-01	.1300-01	.1550-01	.3817-03	.3167-03	.3810-03	.2390	1.948	529.7
199	32.000	1.0300	840.00	.2160-01	.1790-01	.2160-01	.5279-03	.4379-03	.5268-03	.3300	2.596	530.3
199	32.000	1.0450	841.00	.2580-01	.2140-01	.2580-01	.6302-03	.5227-03	.6289-03	.3940	3.044	530.6
199	32.000	1.0600	842.00	.2440-01	.2020-01	.2430-01	.5854-03	.4939-03	.5942-03	.3720	3.089	530.8
199	45.000	.92500	969.00	.1200-02	.1000-02	.1200-02	.3014-04	.2505-04	.3014-04	.1900-01	.1430	523.4
199	45.000	.95000	973.00	.1000-03	.1000-03	.1000-03	.2603-05	.2163-05	.2603-05	.2000-02	.1200-01	523.7
199	45.000	.97500	978.00	.6000-03	.5000-03	.6000-03	.1373-04	.1141-04	.1373-04	.9000-02	.6500-01	523.7
199	75.000	.97500	977.00	.1100-02	.9000-03	.1100-02	.2703-04	.2251-04	.2709-04	.1700-01	.1280	523.8
199	85.000	.97500	976.00	.4700-02	.3900-02	.4700-02	.1141-03	.9482-04	.1141-03	.7200-01	.5400	524.6
199	180.00	.10000-01	59.000	.2824	.2331	.2824	.6692-02	.5689-02	.6692-02	.4.182	30.99	548.3
199	180.00	.25000-01	60.000	.9590-01	.7700-01	.9290-01	.2267-02	.1879-02	.2267-02	1.403	10.18	533.5
199	180.00	.50000-01	61.000	.4500-01	.3740-01	.4500-01	.1039-02	.9119-03	.1039-02	.6890	4.419	528.2
199	180.00	.75000-01	62.000	.2350-01	.1950-01	.2350-01	.5729-03	.4758-03	.5729-03	.3600	2.315	525.9
199	180.00	.10000+00	63.000	.1420-01	.1180-01	.1420-01	.3454-03	.2869-03	.3454-03	.2180	1.440	525.1
199	180.00	.12500	64.000	.9800-02	.6100-02	.9300-02	.2384-03	.1981-03	.2384-03	.1500	1.058	524.3
199	180.00	.15000	65.000	.6000-02	.5000-02	.6000-02	.1464-03	.1217-03	.1464-03	.9200-01	.6500	523.7
199	180.00	.17000	66.000	.1900-01	.1580-01	.1900-01	.4633-03	.3849-03	.4633-03	.2820	1.641	525.3
199	180.00	.20000	67.000	.6460-01	.5360-01	.6460-01	.1576-02	.1308-02	.1576-02	.9860	5.531	529.7
199	180.00	.40100	69.000	.1910-01	.1590-01	.1910-01	.4673-03	.3882-03	.4673-03	.2940	1.839	525.2
199	180.00	.50000	72.000	.7100-02	.5900-02	.7100-02	.1725-03	.1433-03	.1725-03	.1090	.9320	525.5
199	180.00	.50000	73.000	.9600-02	.8000-02	.9600-02	.2353-03	.1954-03	.2353-03	.1480	1.270	526.0
199	180.00	.60100	74.000	.9300-02	.8200-02	.9300-02	.2410-03	.2001-03	.2410-03	.1520	1.258	526.1
199	180.00	.70100	75.000	.8000-02	.6700-02	.8000-02	.1957-03	.1626-03	.1957-03	.1230	.9920	525.3

(RV1B10)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = 5.000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
209	8.000	3.737	19.97	.0000	180.0	859.6	.8800-01	1345.	97.50	3.944	3870.	.7577-04
210	8.000	3.762	19.96	.0000	180.0	861.5	.8800-01	1341.	97.20	3.953	3865.	.7617-04

RUN NUMBER	MU	HREF BTU/ R F12SEC	ST FR R
209	7849-07	.4907-01	.0175
210	7825-07	.4910-01	.2095-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H1GTO BTU/ R F12SEC	H1TO BTU/ R F12SEC	H1TAM BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWOT DEG. R /SEC	TW DEG. R
209	.00000	.00000	1.0000	.9135	.7335	.7516	.4482-01	.3599-01	.3688-01	24.57	129.1	662.6
209	.00000	.50000-02	2.0000	.7451	.5989	.6137	.3656-01	.2939-01	.3011-01	20.16	132.6	659.4
209	.00000	.10000-01	3.0000	.5552	.4513	.4825	.2724-01	.2215-01	.2367-01	15.92	103.2	626.3
209	.00000	.20000-01	4.0000	.3277	.2702	.3017	.1608-01	.1326-01	.1481-01	10.15	55.56	579.3
209	.00000	.30000-01	5.0000	.2270	.1877	.2140	.1114-01	.9212-02	.1050-01	7.168	39.46	567.2
209	.00000	.40000-01	6.0000	.1868	.1548	.1787	.9167-02	.7533-02	.8770-02	5.950	32.85	561.7
209	.00000	.50000-01	7.0000	.1642	.1357	.1586	.8055-02	.6658-02	.7783-02	5.166	34.43	569.4
209	.00000	.60000-01	8.0000	.1594	.1320	.1552	.7823-02	.6475-02	.7617-02	5.057	31.86	564.3
209	.00000	.70000-01	9.0000	.1328	.1099	.1302	.6516-02	.5391-02	.6390-02	4.203	28.95	565.6
209	.00000	.80000-01	10.000	.1052	.8720-01	.1038	.5164-02	.4260-02	.5034-02	3.364	23.24	559.4
209	.00000	.90000-01	11.000	.9640-01	.8000-01	.9350-01	.4731-02	.3926-02	.4685-02	3.104	19.65	554.6
209	.00000	.10000+00	12.000	.8760-01	.7270-01	.8710-01	.4298-02	.3568-02	.4272-02	2.825	16.93	552.4
209	.00000	.13000	14.000	.7490-01	.6220-01	.7490-01	.3677-02	.3054-02	.3673-02	2.427	13.47	550.7
209	.00000	.15000	15.000	.7000-01	.5810-01	.7000-01	.3433-02	.2852-02	.3435-02	2.264	13.23	551.3
209	.00000	.14000	16.000	.6340-01	.5260-01	.6350-01	.3108-02	.2582-02	.3114-02	2.049	12.99	551.6
209	.00000	.16000	18.000	.6320-01	.5250-01	.6340-01	.3100-02	.2574-02	.3112-02	2.041	12.58	552.5
209	.00000	.17000	19.000	.6200-01	.5140-01	.6230-01	.3040-02	.2524-02	.3055-02	1.998	12.66	553.4
209	.00000	.16000	20.000	.6480-01	.5380-01	.6520-01	.3181-02	.2641-02	.3200-02	2.091	13.24	553.6
209	.00000	.19000	21.000	.6060-01	.5030-01	.6100-01	.2974-02	.2470-02	.2995-02	1.963	12.45	550.8





AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) OREITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(1AW) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWDT DEG. R /SEC	TW DEG. R
209	.00000	.20000	22.000	.5770-01	.4790-01	.5820-01	.2832-02	.2351-02	.2855-02	1.862	11.80	553.1
209	.00000	.22500	23.000	.5230-01	.4340-01	.5290-01	.2566-02	.2131-02	.2593-02	1.690	10.72	551.9
209	.00000	.25000	801.00	.5100-01	.4230-01	.5160-01	.2502-02	.2078-02	.2533-02	1.649	10.45	551.8
209	.00000	.27500	802.00	.4600-01	.3820-01	.4660-01	.2257-02	.1875-02	.2285-02	1.487	9.431	551.8
209	.00000	.30000	803.00	.4790-01	.3970-01	.4850-01	.2349-02	.1950-02	.2373-02	1.544	9.778	553.7
209	.00000	.32500	804.00	.4400-01	.3650-01	.4450-01	.2161-02	.1794-02	.2187-02	1.420	9.263	553.4
209	.00000	.35000	805.00	.4090-01	.3400-01	.4150-01	.2009-02	.1669-02	.2034-02	1.320	8.871	553.6
209	.00000	.37500	806.00	.3650-01	.3030-01	.3700-01	.1792-02	.1488-02	.1815-02	1.178	8.160	553.7
209	.00000	.40000	807.00	.3240-01	.2690-01	.3280-01	.1588-02	.1248-02	.1608-02	1.040	7.682	555.6
209	.00000	.42500	808.00	.3070-01	.2540-01	.3100-01	.1504-02	.1248-02	.1523-02	.9850	7.270	556.0
209	.00000	.45000	809.00	.2750-01	.2280-01	.2790-01	.1350-02	.1119-02	.1367-02	.8820	6.506	557.4
209	.00000	.47500	810.00	.2890-01	.2390-01	.2920-01	.1417-02	.1174-02	.1434-02	.9240	7.051	558.2
209	.00000	.50000	811.00	.3250-01	.2690-01	.3290-01	.1594-02	.1321-02	.1614-02	1.038	7.648	559.6
209	.00000	.52500	812.00	.4240-01	.3510-01	.4280-01	.2079-02	.1723-02	.2125-02	1.353	9.962	560.3
209	.00000	.55000	813.00	.4850-01	.4050-01	.4890-01	.2399-02	.1997-02	.2453-02	1.558	11.87	561.3
209	.00000	.57500	814.00	.5120-01	.4250-01	.5250-01	.2514-02	.2084-02	.2576-02	1.640	11.70	558.6
209	.00000	.60000	815.00	.4330-01	.3590-01	.4440-01	.2124-02	.1761-02	.2160-02	1.389	11.39	556.7
209	.00000	.62500	816.00	.4560-01	.3780-01	.4690-01	.2336-02	.1954-02	.2300-02	1.460	11.97	557.5
209	.00000	.65000	817.00	.4880-01	.4040-01	.5030-01	.2392-02	.1983-02	.2467-02	1.558	12.76	559.5
209	.00000	.67500	818.00	.5630-01	.4670-01	.5820-01	.2765-02	.2291-02	.2858-02	1.801	13.27	559.2
209	.00000	.70000	819.00	.6710-01	.5600-01	.7000-01	.3200-02	.2751-02	.3432-02	2.161	15.92	559.7
209	.00000	.72500	820.00	.7310-01	.6060-01	.7560-01	.3589-02	.2972-02	.2972-02	2.328	18.35	562.2
209	.00000	.75000	821.00	.6990-01	.5700-01	.7120-01	.3390-02	.2793-02	.3495-02	2.191	18.25	562.5
209	.00000	.77500	83.000	.1760-01	.1460-01	.1760-01	.8615-03	.7175-03	.8615-03	.5770	3.481	540.8
209	.00000	.80000	91.000	.3910-01	.3250-01	.3910-01	.1916-02	.1594-02	.1916-02	1.276	7.891	545.0
209	.00000	.82500	90.000	.1310-01	.1090-01	.1310-01	.6414-03	.5344-03	.6414-03	.4310	2.602	538.7
209	.00000	.85000	823.00	.4940-01	.4090-01	.5000-01	.2424-02	.2008-02	.2454-02	1.577	12.44	560.2
209	.00000	.87500	824.00	.4490-01	.3720-01	.4540-01	.2502-02	.1824-02	.2229-02	1.430	11.28	561.1
209	.00000	.90000	825.00	.3010-01	.2490-01	.3050-01	.1476-02	.1223-02	.1494-02	.9610	8.501	559.4
209	.00000	.92500	826.00	.3740-01	.3100-01	.3790-01	.1837-02	.1522-02	.1860-02	1.193	8.778	561.7
209	.00000	.95000	827.00	.4290-01	.3560-01	.4350-01	.2106-02	.1745-02	.2133-02	1.368	10.07	551.4
209	.00000	.97500	828.00	.4010-01	.3330-01	.4110-01	.1593-02	.1332-02	.2016-02	1.284	10.14	558.5
209	.00000	.99000	971.00	.5770-01	.4770-01	.5770-01	.2830-02	.2342-02	.2830-02	1.825	13.40	566.1
209	.00000	.99500	975.00	.6570-01	.5430-01	.6570-01	.3222-02	.2665-02	.3222-02	2.074	15.23	566.9
209	.00000	.99500	980.00	.6320-01	.5230-01	.6320-01	.3101-02	.2568-02	.3101-02	2.011	14.79	562.5
209	.00000	.99500	93.000	.5550-01	.4620-01	.5550-01	.2725-02	.2255-02	.2725-02	1.806	11.15	547.9
209	.00000	.99500	970.00	.5190-01	.4300-01	.5190-01	.2545-02	.2109-02	.2545-02	1.660	12.24	558.5
209	.00000	.99500	974.00	.6100-01	.5050-01	.6100-01	.2993-02	.2478-02	.2993-02	1.939	14.26	562.9
209	.00000	.99500	979.00	.3510-01	.3250-01	.3510-01	.1917-02	.1595-02	.1917-02	1.277	9.482	544.5
209	.00000	.99500	831.00	.7150-01	.5930-01	.7240-01	.3510-02	.2908-02	.3554-02	2.281	15.74	561.1
209	.00000	.99500	832.00	.5550-01	.4680-01	.5720-01	.2772-02	.2295-02	.2807-02	1.795	12.78	563.0
209	.00000	.99500	833.00	.5060-01	.4190-01	.5120-01	.2482-02	.2055-02	.2513-02	1.607	10.75	563.2
209	.00000	.99500	834.00	.3210-01	.2660-01	.3250-01	.1576-02	.1304-02	.1596-02	1.018	7.739	564.9

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04-498B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF ITAW	H(9TO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(11A) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWDT DEG. R /SEC	YH DEG. R
209	32.000	.80000	835.00	.3530-01	.2920-01	.3570-01	.1731-02	.1434-02	.1752-02	1.123	8.003	561.6
209	32.000	.90000	836.00	.3150-01	.2610-01	.3230-01	.1545-02	.1281-02	.1583-02	1.008	7.435	558.2
209	32.000	.95000	837.00	.3840-01	.3190-01	.3950-01	.1886-02	.1584-02	.1940-02	1.232	9.405	557.2
209	32.000	.97500	838.00	.3540-01	.2930-01	.3650-01	.1735-02	.1439-02	.1789-02	1.136	8.987	555.8
209	32.000	1.0150	839.00	.2640-01	.2190-01	.2640-01	.1297-02	.1075-02	.1294-02	.8440	6.784	559.9
209	32.000	1.0300	840.00	.3530-01	.3280-01	.3950-01	.1942-02	.1610-02	.1938-02	1.267	9.832	558.4
209	32.000	1.0450	841.00	.4240-01	.3510-01	.4230-01	.2081-02	.1725-02	.2077-02	1.355	10.33	559.4
209	32.000	1.0600	842.00	.3390-01	.3310-01	.3980-01	.1958-02	.1623-02	.1954-02	1.279	10.48	557.7
209	45.000	.92500	953.00	.9700-02	.8100-02	.9700-02	.4775-03	.3978-03	.4775-03	3.210	2.387	539.3
209	45.000	.95000	973.00	.3200-02	.2700-02	.3200-02	.1595-03	.1328-03	.1595-03	1.070	.7970	539.3
209	45.000	.97500	978.00	.5600-02	.4700-02	.5600-02	.2746-03	.2288-03	.2746-03	1.371	1.371	539.8
209	75.000	.97500	977.00	.4900-02	.4100-02	.4900-02	.2390-03	.1991-03	.2390-03	1.600	1.194	539.4
209	85.000	.97500	976.00	.7200-02	.6000-02	.7200-02	.3537-03	.2946-03	.3537-03	2.370	1.766	540.0
209	180.00	.10000-01	59.000	.2823	.2323	.2823	.1385-01	.1140-01	.1385-01	8.654	62.93	586.0
209	180.00	.25000-01	60.000	.6890-01	.7330-01	.6890-01	.4364-02	.3633-02	.4364-02	2.873	20.56	552.3
209	180.00	.50000-01	61.000	.4230-01	.3520-01	.4230-01	.2076-02	.1727-02	.2076-02	1.385	8.816	543.7
209	180.00	.75000-01	62.000	.2120-01	.1760-01	.2120-01	.1039-02	.8650-03	.1039-02	6.960	4.441	540.3
209	180.00	.10000-00	63.000	.1190-01	.9900-02	.1190-01	.5825-03	.4852-03	.5825-03	3.910	2.569	539.3
209	180.00	.12500	64.000	.7300-02	.6100-02	.7300-02	.3590-03	.2991-03	.3590-03	2.410	1.684	538.7
209	180.00	.15000	65.000	.6800-02	.5700-02	.6800-02	.3341-03	.2784-03	.3341-03	2.250	1.568	538.7
209	180.00	.16000	66.000	.2770-01	.2310-01	.2770-01	.1360-02	.1132-02	.1360-02	9.070	5.051	544.0
209	180.00	.17000	67.000	.6780-01	.5640-01	.6780-01	.3329-02	.2765-02	.3329-02	2.197	12.20	550.8
209	180.00	.20000	69.000	.1650-01	.1390-01	.1650-01	.8113-03	.6756-03	.8113-03	3.460	3.369	540.8
209	180.00	.40100	72.000	.1420-01	.1180-01	.1420-01	.6569-03	.5802-03	.6569-03	4.660	3.959	542.1
209	180.00	.50000	73.000	.1470-01	.1220-01	.1470-01	.5998-03	.5204-03	.5998-03	4.820	4.093	542.0
209	180.00	.60100	74.000	.1400-01	.1170-01	.1400-01	.6878-03	.5726-03	.6878-03	4.600	3.783	541.8
209	180.00	.70100	75.000	.8100-02	.6700-02	.8100-02	.3564-03	.3302-03	.3564-03	2.660	2.121	539.9

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OH-498 (AEDC V41B-57A) CRBITER FUSELAGE

FUSELAGE

PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = 5.000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	FO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
195	7.900	.5412	30.08	.0000	180.0	110.3	.1200-01	1269.	94.20	.5350	3756.	.1092-04
196	7.900	.5506	30.08	.0000	180.0	112.4	.1200-01	1271.	94.30	.5460	3759.	.1112-04

RUN NUMBER	MU	HREF	BTU/ R	ST FR
195	LB-SEC			R =
195	1790-01			0.0175
196	7588-07			.5454-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (1AW)	H(UTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TM DEG. R
195	.00000	.00000	1.0000	.7713	.6341	.6657	.1380-01	.1135-01	.1191-01	8.100	44.85	555.6
195	.00000	.50000-02	2.0000	.7457	.6115	.6149	.1334-01	.1094-01	.1100-01	7.721	53.22	563.8
195	.00000	.10000-01	3.0000	.6207	.5104	.5272	.1111-01	.9134-02	.9436-02	6.521	43.78	555.4
195	.00000	.20000-01	4.0000	.3982	.3287	.3527	.7126-02	.5882-02	.6312-02	4.279	23.86	541.9
195	.00000	.30000-01	5.0000	.2920	.2413	.2639	.5225-02	.4317-02	.4724-02	3.155	17.62	538.5
195	.00000	.40000-01	6.0000	.2448	.2023	.2242	.4381-02	.3521-02	.4013-02	2.649	14.80	537.8
195	.00000	.50000-01	7.0000	.2285	.1882	.2112	.4089-02	.3376-02	.3781-02	2.459	16.63	540.9
195	.00000	.60000-01	8.0000	.2278	.1628	.2122	.4077-02	.3367-02	.3793-02	2.455	15.65	540.4
195	.00000	.70000-01	9.0000	.1972	.1315	.1850	.3529-02	.2914-02	.3311-02	2.121	14.79	541.2
195	.00000	.80000-01	10.000	.1591	.1231	.1502	.2848-02	.2353-02	.2665-02	1.719	12.00	538.8
195	.00000	.90000-01	11.000	.1489	.1112	.1411	.2664-02	.2203-02	.2525-02	1.614	10.31	536.6
195	.00000	1.0000-00	12.000	.1345	.1072	.1280	.2407-02	.1991-02	.2290-02	1.459	8.819	536.4
195	.00000	.13000	13.000	.1296	.1072	.1240	.2320-02	.1916-02	.2219-02	1.407	7.865	536.2
195	.00000	.14000	14.000	.1139	.9420-01	.1051	.2039-02	.1685-02	.1952-02	1.236	7.276	535.9
195	.00000	.14000	15.000	.1058	.8750-01	.1015	.1833-02	.1565-02	.1816-02	1.149	7.342	535.7
195	.00000	.16000	16.000	.1076	.8900-01	.1034	.1926-02	.1592-02	.1811-02	1.168	7.257	536.0
195	.00000	.17000	17.000	.1059	.8760-01	.1020	.1836-02	.1568-02	.1825-02	1.149	7.343	536.3
195	.00000	.18000	18.000	.1052	.8700-01	.1014	.1883-02	.1557-02	.1814-02	1.141	7.289	536.5
195	.00000	.19000	19.000	.1025	.8480-01	.9630-01	.1835-02	.1577-02	.1770-02	1.114	7.122	535.2

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(RV1B11)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(19TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AM) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
195	.00000	.20000	22.000	.9950-01	.8240-01	.9620-01	.1783-02	.1474-02	.1722-02	1.080	6.903	536.4
195	.00000	.22500	23.000	.9200-01	.7610-01	.8910-01	.1647-02	.1362-02	.1595-02	.9990	5.395	535.9
195	.00000	.25000	801.00	.9110-01	.7530-01	.8840-01	.1630-02	.1340-02	.1592-02	.9890	6.321	535.9
195	.00000	.30000	802.00	.8230-01	.6800-01	.7980-01	.1473-02	.1218-02	.1429-02	.8930	5.704	536.3
195	.00000	.35000	803.00	.8750-01	.7230-01	.8480-01	.1565-02	.1294-02	.1518-02	.9460	6.043	537.8
195	.00000	.40000	804.00	.8440-01	.6980-01	.8190-01	.1511-02	.1249-02	.1465-02	.9130	6.004	537.8
195	.00000	.45000	805.00	.7680-01	.6350-01	.7450-01	.1375-02	.1136-02	.1334-02	.8300	5.620	538.7
195	.00000	.50000	806.00	.7090-01	.5660-01	.6880-01	.1270-02	.1049-02	.1231-02	.7660	5.343	539.4
195	.00000	.55000	807.00	.6170-01	.5100-01	.5990-01	.1103-02	.9935-03	.1167-02	.7240	5.384	540.8
195	.00000	.60000	808.00	.5630-01	.4810-01	.5550-01	.1043-02	.8676-03	.1011-02	.6660	4.658	541.5
195	.00000	.65000	809.00	.5630-01	.4730-01	.5390-01	.9950-03	.8216-03	.9653-03	.5980	4.602	541.2
195	.00000	.70000	810.00	.5720-01	.4730-01	.5550-01	.1024-02	.8458-03	.9934-03	.5160	4.584	540.7
195	.00000	.75000	811.00	.6030-01	.4980-01	.5850-01	.1080-02	.8917-03	.1047-02	.6500	4.837	540.3
195	.00000	.80000	812.00	.5610-01	.4640-01	.5500-01	.1004-02	.8298-03	.9849-03	.6060	4.664	539.4
195	.00000	.85000	813.00	.5270-01	.4360-01	.5180-01	.9433-03	.7797-03	.9271-03	.5710	4.116	537.3
195	.00000	.90000	814.00	.4200-01	.3470-01	.4130-01	.7509-03	.6208-03	.7398-03	.4550	3.770	536.3
195	.00000	.95000	815.00	.3730-01	.3300-01	.3950-01	.7147-03	.5911-03	.702-03	.4340	3.594	535.5
195	.00000	1.0150	816.00	.2830-01	.2140-01	.2780-01	.6680-03	.5526-03	.6616-03	.4060	3.363	535.0
195	.00000	1.0350	817.00	.2830-01	.2310-01	.2560-01	.4620-03	.2731-03	.2858-03	.1760	1.319	531.3
195	.00000	1.0450	818.00	.2830-01	.1340-01	.1600-01	.2687-03	.3325-03	.4589-03	.2820	2.111	531.0
195	.00000	1.0600	819.00	.2490-01	.2060-01	.2470-01	.5003-03	.4143-03	.4971-03	.3060	2.447	531.5
195	.00000	1.0600	820.00	.2490-01	.2060-01	.2470-01	.4451-03	.3685-03	.4422-03	.2720	2.301	531.5
195	.00000	1.0600	821.00	.2490-01	.2060-01	.2470-01	.1557-03	.1290-03	.1557-03	.9600-01	.5810	527.3
195	.00000	1.0600	822.00	.1340-01	.1110-01	.1340-01	.2404-03	.1993-03	.2404-03	.1480	.9220	527.8
195	.00000	1.0600	823.00	.1340-01	.1110-01	.1340-01	.1833-03	.1561-03	.1883-03	.1160	.7040	526.8
195	.00000	1.0600	824.00	.1340-01	.1110-01	.1340-01	.1500-02	.1239-02	.1455-02	.9030	7.195	540.5
195	.00000	1.0600	825.00	.1340-01	.1110-01	.1340-01	.1384-02	.1142-02	.1342-02	.8300	6.613	542.3
195	.00000	1.0600	826.00	.1340-01	.1110-01	.1340-01	.9497-03	.7839-03	.9210-03	.5700	5.083	542.4
195	.00000	1.0600	827.00	.1340-01	.1110-01	.1340-01	.1103-02	.8678-03	.1019-02	.6330	4.924	541.8
195	.00000	1.0600	828.00	.1340-01	.1110-01	.1340-01	.1051-02	.8678-03	.1019-02	.6330	4.707	540.3
195	.00000	1.0600	829.00	.1340-01	.1110-01	.1340-01	.8243-03	.6814-03	.8101-03	.4990	3.982	537.3
195	.00000	1.0600	830.00	.1340-01	.1110-01	.1340-01	.1005-02	.8312-03	.1005-02	.6100	3.366	537.0
195	.00000	1.0600	831.00	.1340-01	.1110-01	.1340-01	.1005-02	.8312-03	.1005-02	.6100	4.548	535.7
195	.00000	1.0600	832.00	.1340-01	.1110-01	.1340-01	.1005-02	.8312-03	.1005-02	.6100	4.926	533.3
195	.00000	1.0600	833.00	.1340-01	.1110-01	.1340-01	.1005-02	.8312-03	.1005-02	.6100	.6520	527.2
195	.00000	1.0600	834.00	.1340-01	.1110-01	.1340-01	.1005-02	.8312-03	.1005-02	.6100	2.301	532.2
195	.00000	1.0600	835.00	.1340-01	.1110-01	.1340-01	.1005-02	.8312-03	.1005-02	.6100	2.958	531.6
195	.00000	1.0600	836.00	.1340-01	.1110-01	.1340-01	.1005-02	.8312-03	.1005-02	.6100	1.427	526.2
195	.00000	1.0600	837.00	.1340-01	.1110-01	.1340-01	.1005-02	.8312-03	.1005-02	.6100	7.962	539.6
195	.00000	1.0600	838.00	.1340-01	.1110-01	.1340-01	.1005-02	.8312-03	.1005-02	.6100	6.940	542.5
195	.00000	1.0600	839.00	.1340-01	.1110-01	.1340-01	.1005-02	.8312-03	.1005-02	.6100	5.732	543.3
195	.00000	1.0600	840.00	.1340-01	.1110-01	.1340-01	.1005-02	.8312-03	.1005-02	.6100	6.478	542.7

DATE 25 AUG 76 AEDC VKF V41B-57A (OH-498) COLLATION CHECK

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TA4)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
195	32.000	.80000	835.00	.5750-01	.4750-01	.5580-01	.1030-02	.8506-03	.9988-03	.6200	4.468	539.9
195	32.000	.90000	836.00	.4510-01	.3730-01	.4430-01	.8069-03	.6670-03	.7930-03	.4880	3.640	537.1
195	32.000	.95000	837.00	.4950-01	.4100-01	.4900-01	.9874-03	.7340-03	.8765-03	.5390	4.160	535.0
195	32.000	.97500	838.00	.5380-01	.4450-01	.5330-01	.9525-03	.7965-03	.9534-03	.5860	4.608	533.6
195	32.000	1.0150	839.00	.2820-01	.2340-01	.2700-01	.5049-03	.4182-03	.4826-03	.3090	2.521	530.3
195	32.000	1.0300	840.00	.3850-01	.3190-01	.3660-01	.6884-03	.5701-03	.6580-03	.4210	3.314	530.7
195	32.000	1.0450	841.00	.4630-01	.4040-01	.4650-01	.8728-03	.7227-03	.8342-03	.5330	4.123	531.5
195	32.000	1.0600	842.00	.4320-01	.3580-01	.4130-01	.7730-03	.6401-03	.7398-03	.4730	3.925	531.1
195	45.000	.92500	969.00	.1800-02	.1500-02	.1800-02	.3216-04	.2665-04	.3216-04	.2000-01	.1480	527.0
195	45.000	.97500	978.00	.7000-03	.6000-03	.7000-03	.1213-04	.1006-04	.1213-04	.7000-02	.5400-01	527.4
195	75.000	.97500	977.00	.7000-03	.5000-03	.7000-03	.1179-04	.9776-05	.1179-04	.7000-02	.5400-01	527.4
195	85.000	.97500	976.00	.3000-03	.3000-03	.3000-03	.5531-05	.4668-05	.5531-05	.3000-02	.2600-01	527.2
195	180.00	.10000-01	59.000	.1835	.1517	.1835	.3286-02	.2715-02	.3286-02	.1985	14.78	538.3
195	180.00	.25000-01	60.000	.5390-01	.4470-01	.5390-01	.9654-03	.7994-03	.9654-03	.5900	4.270	531.0
195	180.00	.50000-01	61.000	.2610-01	.2160-01	.2610-01	.4668-03	.3958-03	.4668-03	.2860	1.836	529.1
195	180.00	.75000-01	62.000	.1390-01	.1150-01	.1390-01	.2494-03	.2067-03	.2494-03	.1530	.9820	528.6
195	180.00	.10000+00	63.000	.9500-02	.7900-02	.9500-02	.1705-03	.1413-03	.1705-03	.1050	.6920	528.1
195	180.00	.12500	64.000	.8500-02	.7000-02	.8500-02	.1520-03	.1260-03	.1520-03	.9300-01	.6560	527.9
195	180.00	.15000	65.000	.9700-02	.8000-02	.9700-02	.1731-03	.1434-03	.1731-03	.1060	.7470	527.7
195	180.00	.16000	66.000	.2700-01	.2240-01	.2700-01	.4832-03	.4005-03	.4832-03	.2970	1.667	528.1
195	180.00	.17000	67.000	.5790-01	.4790-01	.5790-01	.1036-02	.8581-03	.1036-02	.6330	3.548	531.6
195	180.00	.20000	69.000	.1550-01	.1280-01	.1550-01	.2774-03	.2299-03	.2774-03	.1700	1.063	528.3
195	180.00	.40100	72.000	.2900-02	.2400-02	.2900-02	.5183-04	.4295-04	.5183-04	.3200-01	.2730	528.4
195	180.00	.50000	73.000	.4900-02	.4000-02	.4900-02	.8689-04	.7200-04	.8689-04	.5300-01	.4570	528.6
195	180.00	.60100	74.000	.6200-02	.5100-02	.6200-02	.1103-03	.9139-04	.1103-03	.6800-01	.5610	528.7
195	180.00	.70100	75.000	.6300-02	.5200-02	.6700-02	.1131-03	.9377-04	.1131-03	.7000-01	.5590	527.6

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION CHECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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(RV1B11)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = 5.300 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
201	7.940	1.001	30.06	.0000	180.0	209.0	.2200-01	1278.	93.90	.9920	3770.	.2008-04
202	7.940	1.004	30.08	.0000	180.0	209.6	.2300-01	1278.	93.90	.9950	3770.	.2014-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
201	.7561-07		.2439-01	0.0175
202	.7561-07		.2442-01	.4055-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TM DEG. R
201	.00000	.00000	1.0000	.7781	.6376	.6699	.1898-01	.1555-01	.1634-01	11.01	60.51	570.1
201	.00000	.50000-02	2.0000	.7494	.6119	.6154	.1828-01	.1492-01	.1501-01	10.39	70.99	581.6
201	.00000	.10000-01	3.0000	.6239	.5112	.5284	.1521-01	.1247-01	.1288-01	8.817	58.74	570.7
201	.00000	.20000-01	4.0000	.4026	.3318	.3562	.9819-02	.8091-02	.8688-02	5.877	32.60	551.7
201	.00000	.30000-01	5.0000	.2904	.2357	.2624	.7082-02	.5844-02	.6398-02	4.274	23.77	546.8
201	.00000	.40000-01	6.0000	.2360	.1949	.2162	.5755-02	.4754-02	.5271-02	3.492	19.45	543.5
201	.00000	.50000-01	7.0000	.2243	.1850	.2074	.5471-02	.4511-02	.5057-02	3.287	22.13	549.4
201	.00000	.60000-01	8.0000	.2262	.1867	.2106	.5515-02	.4552-02	.5137-02	3.331	21.18	546.2
201	.00000	.80000-01	10.000	.1588	.1312	.1499	.3874-02	.3199-02	.3555-02	2.349	16.35	543.9
201	.00000	.90000-01	11.000	.1459	.1205	.1382	.3557-02	.2939-02	.3371-02	2.163	13.78	542.3
201	.00000	.10000+00	12.000	.1315	.1086	.1250	.3206-02	.2649-02	.3049-02	1.951	11.76	541.7
201	.00000	.12000	14.000	.1300	.1076	.1244	.3171-02	.2623-02	.3033-02	1.940	10.84	538.3
201	.00000	.13000	15.000	.1139	.9420-01	.1091	.2777-02	.2296-02	.2660-02	1.695	9.957	539.8
201	.00000	.14000	16.000	.1047	.8650-01	.1005	.2554-02	.2113-02	.2450-02	1.561	9.962	539.0
201	.00000	.16000	18.000	.1079	.8930-01	.1038	.2632-02	.2176-02	.2530-02	1.608	9.972	539.4
201	.00000	.17000	19.000	.1057	.8740-01	.1017	.2578-02	.2132-02	.2481-02	1.574	10.04	539.7
201	.00000	.18000	20.000	.1073	.8870-01	.1034	.2617-02	.2164-02	.2521-02	1.597	10.19	539.7
201	.00000	.19000	21.000	.1053	.8710-01	.1016	.2567-02	.2124-02	.2477-02	1.572	10.03	538.0
201	.00000	.20000	22.000	.9930-01	.8210-01	.9590-01	.2421-02	.2002-02	.2338-02	1.480	9.442	539.0

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AEDC /KF V41B-57A (OH-49B) COLLATION DECK

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(RV1B11)

OH-49B (AEDC V41B-57A) ORB TER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(910) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTAOT DEG. R /SEC	TW DEG. R
201	.00000	.22500	23.000	.8930-01	.7390-01	.8650-01	.2178-02	.1802-02	.2110-02	1.335	8.523	537.6
201	.00000	.25000	801.00	.8810-01	.7290-01	.8550-01	.2148-02	.1777-02	.2084-02	1.316	8.409	537.3
201	.00000	.30000	802.00	.8070-01	.6680-01	.7830-01	.1958-02	.1628-02	.1909-02	1.205	7.691	538.1
201	.00000	.35000	803.00	.8220-01	.6790-01	.7970-01	.2004-02	.1657-02	.1944-02	1.223	7.798	540.1
201	.00000	.40000	804.00	.8140-01	.6730-01	.7890-01	.1984-02	.1641-02	.1925-02	1.211	7.554	539.8
201	.00000	.45000	805.00	.7550-01	.6240-01	.7320-01	.1840-02	.1521-02	.1785-02	1.122	7.588	540.5
201	.00000	.50000	806.00	.6850-01	.5670-01	.6650-01	.1671-02	.1382-02	.1621-02	1.019	7.103	540.8
201	.00000	.55000	807.00	.6650-01	.5500-01	.6450-01	.1622-02	.1340-02	.1574-02	.9870	7.334	542.0
201	.00000	.60000	808.00	.6010-01	.4970-01	.5830-01	.1468-02	.1211-02	.1422-02	.8920	6.630	541.8
201	.00000	.65000	809.00	.5670-01	.4650-01	.5500-01	.1383-02	.1143-02	.1342-02	.8400	6.242	542.8
201	.00000	.70000	810.00	.5500-01	.4540-01	.5340-01	.1341-02	.1108-02	.1301-02	.8140	6.260	543.0
201	.00000	.75000	811.00	.5440-01	.4500-01	.5280-01	.1327-02	.1095-02	.1287-02	.8050	5.991	542.0
201	.00000	.80000	812.00	.5440-01	.4420-01	.5280-01	.1423-02	.1176-02	.1380-02	.8550	6.426	542.6
201	.00000	.85000	813.00	.5370-01	.4440-01	.5260-01	.1309-02	.1082-02	.1284-02	.7960	6.123	541.8
201	.00000	.90000	814.00	.5160-01	.4260-01	.5070-01	.1258-02	.1040-02	.1235-02	.7660	5.529	539.8
201	.00000	.92500	815.00	.3930-01	.3290-01	.3920-01	.9700-03	.8027-03	.9563-03	.5940	4.911	538.6
201	.00000	.95000	816.00	.3770-01	.3120-01	.3720-01	.9192-03	.7603-03	.9082-03	.5620	4.651	538.7
201	.00000	.97500	817.00	.3650-01	.3020-01	.3610-01	.8639-03	.7360-03	.8815-03	.5440	4.496	539.3
201	.00000	1.0150	818.00	.1570-01	.1300-01	.1560-01	.3838-03	.3174-03	.3810-03	.2350	3.101	539.2
201	.00000	1.0300	819.00	.2790-01	.2310-01	.2770-01	.6811-03	.5633-03	.6766-03	.4160	3.101	538.8
201	.00000	1.0450	820.00	.2830-01	.2340-01	.2810-01	.6907-03	.5712-03	.6862-03	.4220	3.363	539.7
201	.00000	1.0600	821.00	.2470-01	.2040-01	.2450-01	.6023-03	.4891-03	.5984-03	.3680	3.099	539.6
201	.00000	1.0800	822.00	.8100-02	.6700-02	.8100-02	.1977-03	.1639-03	.1977-03	.1230	.7440	529.7
201	.00000	1.1000	823.00	.1580-01	.1310-01	.1580-01	.3651-03	.3195-03	.3651-03	.2400	1.499	526.8
201	.00000	1.1200	824.00	.8300-02	.6900-02	.8300-02	.2036-03	.1689-03	.2036-03	.1270	.7690	527.7
201	.00000	1.1400	825.00	.8380-01	.6920-01	.8120-01	.2042-02	.1687-02	.1981-02	1.240	9.669	543.2
201	.00000	1.1600	826.00	.5180-01	.4280-01	.5030-01	.1867-02	.1542-02	.1811-02	1.131	8.998	544.3
201	.00000	1.1800	827.00	.6120-01	.5050-01	.5940-01	.1264-02	.1043-02	.1226-02	.7660	6.823	544.2
201	.00000	1.2000	828.00	.5730-01	.4730-01	.5550-01	.1493-02	.1233-02	.1448-02	.9050	6.721	544.0
201	.00000	1.2200	829.00	.4510-01	.3730-01	.4430-01	.1356-02	.1154-02	.1354-02	.8480	6.303	542.7
201	.00000	1.2400	830.00	.6530-01	.5390-01	.6330-01	.1093-02	.9090-03	.1081-02	.6710	5.348	540.0
201	.00000	1.2600	831.00	.7080-01	.5850-01	.7080-01	.1591-02	.1314-02	.1591-02	.9620	7.140	545.5
201	.00000	1.2800	832.00	.1100-01	.9100-02	.1100-01	.1751-02	.1447-02	.1751-02	1.065	7.922	543.5
201	.00000	1.3000	833.00	.5490-01	.4540-01	.5490-01	.1751-02	.1447-02	.1751-02	1.065	7.922	543.5
201	.00000	1.3200	834.00	.6080-01	.5030-01	.6080-01	.2226-03	.1108-02	.2682-03	.1670	1.044	526.6
201	.00000	1.3400	835.00	.2600-01	.2150-01	.2600-01	.1340-02	.1226-02	.1483-02	.9040	6.089	539.6
201	.00000	1.3600	836.00	.1062	.8770-01	.1030	.1483-02	.1226-02	.1483-02	.9040	6.727	540.4
201	.00000	1.3800	837.00	.8830-01	.7290-01	.8830-01	.5252-03	.2512-02	.6335-03	.3920	2.932	531.1
201	.00000	1.4000	838.00	.83100+10	.83100+10	.83100+10	.2140-02	.1778-02	.2512-02	1.574	10.97	542.1
201	.00000	1.4200	839.00	.832.00	.7290-01	.8560-01	.1534-02	.1304-02	.2088-02	1.304	9.365	544.8
201	.00000	1.4400	840.00	.7620-01	.6280-01	.7390-01	.1859-02	.1534-02	.1803-02	1.123	7.576	545.9
201	.00000	1.4600	841.00	.7060-01	.5830-01	.6850-01	.1722-02	.1421-02	.1670-02	1.042	8.001	545.0
201	.00000	1.4800	842.00	.5290-01	.4370-01	.5140-01	.1291-02	.1067-02	.1252-02	.7840	5.641	542.6

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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(RV1811)

OH-49B (AEDC V41B-57A) OR31TER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1A..) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
201	32.000	.90000	836.00	.4480-01	.3710-01	.4410-01	.1093-02	.9040-03	.1075-02	.6670	4.963	540.2
201	32.000	.95000	837.00	.5030-01	.4160-01	.4970-01	.1226-02	.1014-02	.1211-02	.7480	5.762	539.9
201	32.000	.97500	838.00	.5270-01	.4360-01	.5220-01	.1286-02	.1063-02	.1273-02	.7840	6.251	540.3
201	32.000	1.0150	839.00	.2390-01	.1970-01	.2280-01	.5823-03	.4815-03	.5564-03	.3350	2.884	540.1
201	32.000	1.0300	840.00	.4020-01	.3320-01	.3840-01	.9801-03	.8104-03	.9365-03	.5980	4.686	539.9
201	32.000	1.0450	841.00	.4890-01	.4040-01	.4670-01	.1193-02	.9862-03	.1140-02	.7260	5.587	541.5
201	32.000	1.0600	842.00	.4520-01	.3740-01	.4320-01	.1102-02	.9109-03	.1053-02	.6720	5.559	539.9
201	45.000	.92500	969.00	.8800-02	.7300-02	.8800-02	.2147-03	.1781-03	.2147-03	.1340	1.001	527.4
201	45.000	.95000	973.00	.5000-03	.4000-03	.5000-03	.1197-04	.9941-05	.1197-04	.7000-02	.5600-01	525.3
201	45.000	.97500	978.00	.2000-03	.2000-03	.2000-03	.5595-05	.4645-05	.5595-05	.3000-02	.2600-01	525.2
201	75.000	.97500	977.00	.2000-03	.2000-03	.2000-03	.5803-05	.4818-05	.5803-05	.4000-02	.2700-01	525.1
201	85.000	.97500	976.00	.4000-03	.3000-03	.4000-03	.9869-05	.8210-05	.9869-05	.6000-02	.4600-01	525.1
201	180.00	.00000-01	59.000	.1615	.1499	.1815	.4425-02	.3655-02	.4425-02	.2.682	19.91	544.2
201	180.00	.25000-01	60.000	.5250-01	.4350-01	.5250-01	.1281-02	.1060-02	.1281-02	.7870	5.679	535.8
201	180.00	.50000-01	61.000	.2300-01	.1910-01	.2300-01	.5608-03	.4647-03	.5608-03	.3470	2.219	532.2
201	180.00	.75000-01	62.000	.1180-01	.9800-02	.1180-01	.2681-03	.2389-03	.2681-03	.1790	1.144	530.5
201	180.00	.10000+02	63.000	.8800-02	.7300-02	.8800-02	.2137-03	.1772-03	.2137-03	.1330	.8750	529.9
201	180.00	.12500	64.000	.9300-02	.7700-02	.9300-02	.2277-03	.1888-03	.2277-03	.1410	.9920	529.1
201	180.00	.15000	65.000	.1290-01	.1070-01	.1290-01	.3147-03	.2611-03	.3147-03	.1950	1.374	528.2
201	180.00	.16000	66.000	.4080-01	.3380-01	.4080-01	.9948-03	.6249-03	.9948-03	.6170	3.463	529.7
201	180.00	.17000	67.000	.7150-01	.5960-01	.7150-01	.1753-02	.1453-02	.1753-02	1.083	6.084	532.8
201	180.00	.20000	69.000	.1620-01	.1340-01	.1620-01	.3939-03	.3269-03	.3939-03	.2460	1.533	526.9
201	180.00	.40100	72.000	.4330-02	.4100-02	.4900-02	.1197-03	.9932-04	.1197-03	.7500-01	.6400	526.5
201	180.00	.50000	73.000	.7100-02	.5900-02	.7100-02	.1726-03	.1432-03	.1726-03	.1080	.9220	527.0
201	180.00	.60100	74.000	.7300-02	.6100-02	.7300-02	.1779-03	.1476-03	.1779-03	.1110	.9200	527.1
201	180.00	.70100	75.000	.7700-02	.6400-02	.7700-02	.1890-03	.1568-03	.1890-03	.1180	.9480	526.4

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1811)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = 5.000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.5 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TJ DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
205	7.980	1.993	30.05	.0000	187.0	430.0	.4500-01	1295.	94.30	1.995	3796.	.3985-04
206	7.980	1.957	30.09	.0000	180.0	428.3	.4500-01	1303.	94.80	1.988	3808.	.3945-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
205	.7589-07	.3467-01	0.0175
206	.7635-07	.3464-01	.2887-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISTO) BTU/ R FT <sup>2</sup> SEC	H(ISO) BTU/ R FT <sup>2</sup> SEC	H(TAW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TW DEG. R
205	.00000	.00000	1.0000	.7686	.6292	.6612	.2665-01	.2181-01	.2292-01	15.58	85.17	580.7
205	.00000	.50000-02	2.0000	.7385	.6014	.5049	.2560-01	.2085-01	.2097-01	14.54	98.56	597.4
205	.00000	.10000-01	3.0000	.6025	.4930	.5037	.2089-01	.1709-01	.1767-01	12.18	80.65	582.3
205	.00000	.20000-01	4.0000	.3914	.3228	.3465	.1357-01	.1119-01	.1201-01	8.274	45.81	555.6
205	.00000	.30000-01	5.0000	.2923	.2416	.2643	.1013-01	.8375-02	.9163-02	6.251	34.74	548.5
205	.00000	.40000-01	6.0000	.2359	.1952	.2162	.8177-02	.6167-02	.7497-02	5.079	28.29	544.2
205	.00000	.50000-01	7.0000	.2190	.1807	.2079	.7591-02	.6366-02	.7020-02	4.647	31.23	553.1
205	.00000	.60000-01	8.0000	.2231	.1844	.2079	.7734-02	.6391-02	.7207-02	4.766	30.26	549.0
205	.00000	.70000-01	9.0000	.1941	.1603	.1822	.6731-02	.5559-02	.6316-02	4.133	28.67	551.2
205	.00000	.80000-01	10.000	.1558	.1289	.1471	.5403-02	.4468-02	.5101-02	3.344	23.26	546.3
205	.00000	.90000-01	11.000	.1453	.1203	.1378	.5037-02	.4170-02	.4776-02	3.137	19.98	542.5
205	.00000	.10000-00	12.000	.1291	.1069	.1239	.4477-02	.3707-02	.4261-02	2.790	16.81	542.2
205	.00000	.12000	14.000	.1531	.1269	.1465	.5309-02	.4399-02	.5080-02	3.322	18.55	539.5
205	.00000	.13000	15.000	.1109	.9130-01	.1053	.3816-02	.3185-02	.3586-02	2.397	14.07	542.1
205	.00000	.14000	16.000	.1044	.8550-01	.1032	.3620-02	.2998-02	.3474-02	2.259	14.40	541.3
205	.00000	.16000	18.000	.1081	.8350-01	.1039	.3746-02	.3101-02	.3603-02	2.332	14.44	542.7
205	.00000	.17000	19.000	.1052	.8710-01	.1013	.3648-02	.3019-02	.3512-02	2.267	14.43	543.7
205	.00000	.18000	20.000	.1063	.8790-01	.1024	.3684-02	.3049-02	.3550-02	2.289	14.57	543.9
205	.00000	.19000	21.000	.1014	.8400-01	.9780-01	.3515-02	.2911-02	.3392-02	2.192	13.97	541.8

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) OR31TER FUSELAGE

(RV1811)

P/JN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(19TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHOT DEG. R /SEC	TW DEG. R
205	.00000	.20000	22.000	.9830-01	.8130-01	.9500-01	.3408-02	.2820-02	.3292-02	2.119	13.49	543.5
205	.00000	.23.000	23.000	.8910-01	.7740-01	.9050-01	.3241-02	.2694-02	.3140-02	2.020	12.87	542.2
205	.00000	.25000	801.00	.8910-01	.7370-01	.8640-01	.3088-02	.2556-02	.2995-02	1.923	12.25	542.4
205	.00000	.30000	802.00	.8010-01	.6530-01	.7770-01	.2777-02	.2298-02	.255-02	1.727	11.00	543.2
205	.00000	.35000	803.00	.8060-01	.6660-01	.7820-01	.2794-02	.2310-02	.2710-02	1.729	10.99	546.3
205	.00000	.40000	804.00	.8260-01	.6830-01	.8020-01	.2865-02	.2369-02	.2779-02	1.771	11.59	547.1
205	.00000	.45000	805.00	.7400-01	.6120-01	.7180-01	.2557-02	.2122-02	.2491-02	1.584	10.67	548.3
205	.00000	.50000	806.00	.6750-01	.5580-01	.6530-01	.2340-02	.1933-02	.2270-02	1.441	10.01	549.2
205	.00000	.55000	807.00	.6660-01	.5500-01	.6460-01	.2308-02	.1906-02	.2239-02	1.416	10.48	551.7
205	.00000	.60000	808.00	.6090-01	.5030-01	.5910-01	.2111-02	.1743-02	.2048-02	1.295	9.580	551.8
205	.00000	.65000	809.00	.5280-01	.4600-01	.5410-01	.1934-02	.1596-02	.1878-02	1.183	8.746	553.5
205	.00000	.70000	810.00	.5480-01	.4530-01	.5320-01	.1902-02	.1569-02	.1844-02	1.162	8.979	554.3
205	.00000	.75000	811.00	.5330-01	.4450-01	.5230-01	.1868-02	.1541-02	.1812-02	1.141	8.433	554.2
205	.00000	.80000	812.00	.6220-01	.5130-01	.5030-01	.2156-02	.1779-02	.2091-02	1.317	9.727	554.6
205	.00000	.85000	813.00	.6190-01	.5100-01	.5070-01	.2144-02	.1770-02	.2103-02	1.310	10.01	554.2
205	.00000	.90000	814.00	.5960-01	.4920-01	.5860-01	.2067-02	.1707-02	.2031-02	1.269	9.089	551.2
205	.00000	.92500	815.00	.4680-01	.4030-01	.4810-01	.1691-02	.1397-02	.1666-02	1.041	8.571	549.2
205	.00000	.95000	816.00	.4630-01	.3890-01	.4640-01	.1628-02	.1345-02	.1608-02	1.002	8.247	549.5
205	.00000	.97500	817.00	.4630-01	.3820-01	.4580-01	.1602-02	.1323-02	.1587-02	.9840	8.090	551.1
205	.00000	1.0150	818.00	.6450-01	.5340-01	.6420-01	.2241-02	.1850-02	.2226-02	1.373	10.15	553.6
205	.00000	1.0300	819.00	.9410-01	.7770-01	.9350-01	.3262-02	.2632-02	.3241-02	1.995	14.75	557.8
205	.00000	1.0450	820.00	.1151	.9490-01	.1143	.3990-02	.3289-02	.3961-02	2.424	19.15	559.9
205	.00000	1.0600	821.00	.1234	.1016	.1225	.4277-02	.3523-02	.4248-02	2.589	21.59	528.8
205	.00000	.89.000	89.000	.7700-02	.6400-02	.7700-02	.2675-03	.2223-03	.2675-03	1.700	1.033	528.6
205	.00000	.91.000	91.000	.1690-01	.1410-01	.1690-01	.5872-03	.4880-03	.5872-03	.3740	2.332	528.6
205	.00000	.90.000	90.000	.6700-02	.5500-02	.6700-02	.2316-03	.1925-03	.2316-03	.1480	8.950	552.6
205	.00000	.823.00	823.00	.8190-01	.6760-01	.7940-01	.2839-02	.2343-02	.2753-02	1.739	13.78	552.6
205	.00000	.824.00	824.00	.7560-01	.6230-01	.7330-01	.2620-02	.2161-02	.2541-02	1.599	12.65	555.1
205	.00000	.825.00	825.00	.5240-01	.4330-01	.5090-01	.1818-02	.1500-02	.1763-02	1.110	9.841	554.7
205	.00000	.826.00	826.00	.6180-01	.5100-01	.6000-01	.2144-02	.1768-02	.2079-02	1.306	9.639	556.2
205	.00000	.827.00	827.00	.6110-01	.5040-01	.5920-01	.2117-02	.1747-02	.2053-02	1.294	9.557	550.7
205	.00000	.828.00	828.00	.5280-01	.4340-01	.5170-01	.1823-02	.1506-02	.1792-02	1.121	8.885	557.3
205	.00000	.92500	925.00	.9580-01	.7900-01	.9580-01	.3322-02	.2739-02	.3322-02	2.020	14.90	557.0
205	.00000	.95000	950.00	.9890-01	.8150-01	.9830-01	.3427-02	.2826-02	.3427-02	2.085	15.39	553.8
205	.00000	.980.00	980.00	.9220-01	.7510-01	.9220-01	.3197-02	.2638-02	.3197-02	1.955	14.45	528.0
205	.00000	.93.000	93.000	.1140-01	.9500-02	.1140-01	.3952-03	.3284-03	.3522-03	.2520	1.571	551.1
205	.00000	.92500	925.00	.6910-01	.7360-01	.8910-01	.2952-02	.2552-02	.3089-02	1.898	14.04	556.3
205	.00000	.974.00	974.00	.1057	.8720-01	.1057	.3656-03	.3023-02	.3656-02	2.233	16.48	539.5
205	.00000	.979.00	979.00	.6020-01	.4930-01	.6020-01	.2089-02	.1731-02	.2089-02	1.307	9.729	550.6
205	.00000	.83100+10	831.00	.1086	.8970-01	.1054	.3117-02	.2572-02	.3023-02	2.314	16.06	555.4
205	.00000	.832.00	832.00	.8990-01	.7420-01	.8720-01	.3117-02	.2572-02	.3023-02	1.901	13.59	555.1
205	.00000	.833.00	833.00	.7610-01	.6280-01	.7380-01	.2638-02	.2176-02	.2559-02	1.607	10.78	555.4
205	.00000	.834.00	834.00	.6610-01	.5450-01	.6410-01	.2292-02	.1890-02	.2222-02	1.398	10.68	555.4

(RVIB11)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) OR31TER FUSELAGE

DATE 25 AUG 76

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(19T) LTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TW DEG. R
205	32.000	.80000	835.00	.5910-01	.4790-01	.5510-01	.214-02	.1662-02	.1953-02	1.232	8.815	553.3
205	32.000	.90000	836.00	.5620-01	.4640-01	.5520-01	.214-02	.1662-02	.1953-02	1.232	8.815	553.3
205	32.000	.95000	837.00	.6540-01	.5400-01	.6460-01	.267-02	.1873-02	.2240-02	1.393	8.864	550.8
205	32.000	.97500	838.00	.6550-01	.5410-01	.6480-01	.2270-02	.1875-02	.2248-02	1.396	11.07	550.2
205	32.000	1.01500	839.00	.4680-01	.3860-01	.4470-01	.1623-02	.1339-02	.1550-02	.9900	7.970	555.7
205	32.000	1.03000	840.00	.6710-01	.5540-01	.640-01	.2325-02	.1919-02	.2221-02	1.424	11.08	553.0
205	32.000	1.04500	841.00	.8200-01	.6770-01	.7830-01	.2844-02	.2347-02	.2716-02	1.738	13.29	554.1
205	32.000	1.06000	842.00	.6610-01	.5460-01	.6330-01	.2293-02	.1893-02	.2190-02	1.406	11.55	552.1
205	45.000	.92500	959.00	.1710-01	.1420-01	.170-01	.5932-03	.4926-03	.5932-03	.3760	2.813	531.0
205	45.000	.95000	973.00	.9000-03	.7000-03	.9000-03	.2952-04	.2454-04	.2952-04	.1900-01	.1410	527.2
205	45.000	.97500	978.00	.5000-03	.4000-03	.5000-03	.1700-04	.1413-04	.1700-04	.5000-02	.3800-01	527.3
205	75.000	.97500	977.00	.2000-03	.2000-03	.2000-03	.7976-05	.6631-05	.7976-05	.5000-02	.3800-01	527.1
205	85.000	.97500	976.00	.7000-03	.5000-03	.7000-03	.2278-04	.1894-04	.2278-04	.1500-01	.1090	526.9
205	180.00	.10000-01	59.000	.1781	.1474	.1781	.6175-02	.5110-02	.6175-02	3.836	28.49	544.1
205	180.00	.25000-01	60.000	.4980-01	.4130-01	.4390-01	.1726-02	.1433-02	.1726-02	1.093	7.899	532.4
205	180.00	.50000-01	61.000	.2120-01	.1750-01	.2120-01	.7343-03	.6101-03	.7343-03	.4670	2.993	528.7
205	180.00	.75000-01	62.000	.1150-01	.9500-02	.1160-01	.4011-03	.3333-03	.4011-03	.2550	1.637	529.0
205	180.00	.10200+00	63.000	.9300-02	.7700-02	.9300-02	.3231-03	.2685-03	.3231-03	.2060	1.359	528.7
205	180.00	.12500	64.000	.1080-01	.9000-02	.1080-01	.3753-03	.3118-03	.3753-03	.2390	1.675	529.1
205	180.00	.15000	65.000	.1840-01	.1530-01	.1840-01	.6377-03	.5298-03	.6377-03	.4050	2.842	529.8
205	180.00	.16000	66.000	.5870-01	.4870-01	.5870-01	.2036-02	.1689-02	.2036-02	1.283	7.160	535.1
205	180.00	.17000	67.000	.8750-01	.7260-01	.8750-01	.3035-02	.2517-02	.3035-02	1.909	10.67	536.3
205	180.00	.20000	69.000	.1470-01	.1220-01	.1470-01	.5102-03	.4240-03	.5102-03	.3250	2.028	528.2
205	180.00	.40100	72.000	.9700-02	.8100-02	.9700-02	.3373-03	.2803-03	.3373-03	.2150	1.839	528.6
205	180.00	.50000	73.000	.8200-02	.6600-02	.8200-02	.2839-03	.2359-03	.2839-03	.1810	1.549	528.3
205	180.00	.60100	74.000	.5900-02	.4900-02	.5900-02	.2053-03	.1707-03	.2053-03	.1310	1.086	527.5
205	180.00	.70100	75.000	.6300-02	.5200-02	.6300-02	.2170-03	.1804-03	.2170-03	.1390	1.113	527.0

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1B11)

OH-49B (AEDC V41B-57A) CRUIER FUSELAGE

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
BOFLAP = 5.000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10.6 /FT	ALPHA DEG.	YAW DEG.	FI/I MODEL DEG.	FO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
211	8.000	3.761	30.07	.0000	180.0	861.5	.8800-01	1341.	97.20	3.953	3865.	.7616-04
212	8.000	3.720	30.06	.0000	180.0	856.1	.8800-01	1346.	97.50	3.928	3871.	.7544-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
211	.7826-07		.4910-01	0.0175
212	.7851-07		.4897-01	.2105-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(1AH) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWDT DEG. R /SEC	TW DEG. R
211	.00000	.00000	1.0000	.7710	.6247	.6581	.3785-01	.3067-01	.3231-01	21.68	115.5	634.4
211	.00000	.50000-02	2.0000	.7464	.6022	.6058	.3685-01	.2957-01	.2974-01	20.53	135.9	646.9
211	.00000	.10000-01	3.0000	.6213	.5048	.5224	.3050-01	.2478-01	.2565-01	17.73	114.9	626.1
211	.00000	.20000-01	4.0000	.3940	.3240	.3461	.1934-01	.1591-01	.1709-01	12.01	65.50	586.2
211	.00000	.30000-01	5.0000	.2908	.2398	.2626	.1428-01	.1177-01	.1289-01	9.009	49.37	576.2
211	.00000	.40000-01	6.0000	.2448	.2022	.2242	.1202-01	.9928-02	.1101-01	7.653	42.06	570.6
211	.00000	.50000-01	7.0000	.2270	.1869	.2067	.1115-01	.9176-02	.1030-01	6.963	46.11	582.6
211	.00000	.60000-01	8.0000	.2250	.1855	.2054	.1105-01	.9106-02	.1028-01	6.959	43.57	577.2
211	.00000	.70000-01	9.0000	.1951	.1507	.1629	.9578-02	.7830-02	.8980-02	6.005	41.06	580.3
211	.00000	.80000-01	10.000	.1534	.1256	.1447	.7531-02	.6215-02	.7105-02	4.771	32.72	573.8
211	.00000	.90000-01	11.000	.1417	.1171	.1342	.6956-02	.5749-02	.6591-02	4.446	27.96	568.1
211	.00000	.10000+00	12.000	.1316	.1088	.1251	.6459-02	.5340-02	.6144-02	4.133	24.60	567.4
211	.00000	.12000	14.000	.1180	.9760-01	.1128	.5791-02	.4794-02	.5540-02	3.734	20.61	562.5
211	.00000	.13000	15.000	.1121	.9280-01	.1074	.5504-02	.4555-02	.5274-02	3.543	20.57	563.6
211	.00000	.14000	16.000	.1029	.8510-01	.9870-01	.5052-02	.4180-02	.4847-02	3.248	20.46	564.4
211	.00000	.15000	18.000	.1028	.8500-01	.9860-01	.5045-02	.4172-02	.4850-02	3.233	19.78	566.4
211	.00000	.16000	19.000	.1053	.8700-01	.1014	.5170-02	.4274-02	.4976-02	3.306	20.80	567.8
211	.00000	.17000	20.000	.1035	.8550-01	.9970-01	.5082-02	.4200-02	.4895-02	3.248	20.43	568.1
211	.00000	.18000	21.000	.1006	.8320-01	.9700-01	.4938-02	.4085-02	.4784-02	3.174	20.00	564.4

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## AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1B11)

## OH-49B (AEDC V41B-57A) CRIPITER FUSELAGE

PIN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(14M) BTU/ R FT2SEC	OOOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
211	.00000	.20000	22.000	.9530-01	.8250-01	.9640-01	.4693-02	.4050-02	.4732-02	3.135	19.72	567.3
211	.00000	.22500	23.000	.9330-01	.7720-01	.9040-01	.4583-02	.3790-02	.4438-02	2.941	18.52	565.5
211	.00000	.25000	801.00	.8930-01	.7440-01	.8730-01	.4416-02	.3652-02	.4284-02	2.832	17.83	565.9
211	.00000	.30000	802.00	.8260-01	.6830-01	.8010-01	.4054-02	.3353-02	.3933-02	2.599	16.36	566.3
211	.00000	.35000	803.00	.8560-01	.7070-01	.8310-01	.4204-02	.3473-02	.4078-02	2.677	16.81	570.6
211	.00000	.40000	804.00	.8590-01	.7100-01	.8340-01	.4219-02	.3484-02	.4092-02	2.683	17.34	571.3
211	.00000	.45000	805.00	.8320-01	.6850-01	.8050-01	.4076-02	.3365-02	.3953-02	2.586	17.21	572.8
211	.00000	.50000	806.00	.7560-01	.6230-01	.7330-01	.3710-02	.3060-02	.3598-02	2.344	16.07	575.4
211	.00000	.55000	807.00	.7630-01	.6290-01	.7400-01	.3748-02	.3089-02	.3634-02	2.359	17.22	577.9
211	.00000	.60000	808.00	.8130-01	.6700-01	.7880-01	.3992-02	.3290-02	.3870-02	2.509	18.31	578.8
211	.00000	.65000	809.00	.1044	.6590-01	.1012	.5126-02	.4217-02	.4969-02	3.190	23.21	584.9
211	.00000	.70000	810.00	.1373	.1127	.1330	.6739-02	.5536-02	.6530-02	4.158	31.21	590.3
211	.00000	.75000	811.00	.1806	.1481	.1749	.8955-02	.7271-02	.8588-02	5.424	39.26	595.4
211	.00000	.80000	812.00	.2187	.1791	.2118	.1074-01	.8793-02	.1040-01	6.511	47.00	600.9
211	.00000	.85000	813.00	.2248	.1839	.2202	.1104-01	.9028-02	.1081-01	6.658	49.65	603.9
211	.00000	.90000	814.00	.2184	.1790	.2145	.1072-01	.8788-02	.1053-01	6.533	45.70	598.1
211	.00000	.92500	815.00	.1815	.1490	.1787	.8911-02	.7315-02	.8776-02	5.476	44.10	592.8
211	.00000	.95000	816.00	.1822	.1493	.1799	.8945-02	.7332-02	.8832-02	5.454	43.82	597.5
211	.00000	.97500	817.00	.1955	.1608	.1945	.9649-02	.7895-02	.9551-02	5.828	46.70	603.2
211	.00000	1.0150	818.00	.1914	.1570	.1901	.9395-02	.7706-02	.9331-02	5.750	41.62	595.3
211	.00000	1.0300	819.00	.1957	.1614	.1953	.9655-02	.7824-02	.9589-02	5.926	42.93	593.5
211	.00000	1.0450	820.00	.1947	.1594	.1933	.9557-02	.7824-02	.9491-02	5.789	44.76	601.5
211	.00000	1.0600	821.00	.1651	.1353	.1640	.8107-02	.6643-02	.8051-02	4.933	40.35	598.9
211	10.000	.15000	89.500	.6700-02	.5500-02	.6700-02	.3274-03	.2723-03	.3274-03	.2170	1.307	544.0
211	11.500	.20000	91.000	.2520-01	.2100-01	.2520-01	.1239-02	.1030-02	.1239-02	.8210	5.080	544.4
211	14.000	.50000-01	90.000	.9300-02	.7700-02	.9300-02	.4557-03	.3791-03	.4557-03	.3030	1.824	542.9
211	17.500	.40000	823.00	.8670-01	.7140-01	.8410-01	.4257-02	.3507-02	.4127-02	2.671	20.88	579.8
211	17.500	.50000	824.00	.8260-01	.6800-01	.8010-01	.4055-02	.3338-02	.3931-02	2.532	19.76	582.9
211	17.500	.60000	825.00	.6520-01	.5370-01	.6320-01	.3201-02	.2634-02	.3103-02	1.997	17.45	583.4
211	17.500	.70000	826.00	.1100	.9040-01	.1065	.5402-02	.4436-02	.5234-02	3.329	24.15	590.9
211	17.500	.80000	827.00	.1766	.1448	.1711	.8573-02	.7110-02	.8401-02	3.294	38.29	596.9
211	17.500	.90000	828.00	.1803	.1478	.1770	.8651-02	.7256-02	.8692-02	5.403	41.87	596.8
211	20.000	.92500	971.00	.1223	.1006	.1223	.6036-02	.4941-02	.6006-02	3.737	27.19	585.0
211	20.000	.95000	975.00	.1511	.1241	.1511	.7420-02	.6094-02	.7420-02	4.575	33.19	590.7
211	20.000	.97500	980.00	.1377	.1133	.1377	.6759-02	.5560-02	.6759-02	4.205	30.59	585.1
211	24.000	.20000	93.000	.1400-01	.1170-01	.1400-01	.6879-03	.5723-03	.6879-03	.4570	2.828	543.2
211	30.000	.25000	970.00	.1027	.8470-01	.1027	.5042-02	.4160-02	.5042-02	3.191	23.34	574.2
211	30.000	.30000	974.00	.1374	.1130	.1374	.6744-02	.5547-02	.6744-02	4.195	30.52	585.2
211	30.000	.35000	979.00	.6110-01	.6720-01	.8110-01	.3331-02	.3331-02	.3331-02	2.591	19.12	556.5
211	32.000	.40000	831.00+10	.1038	.8560-01	.1005	.5095-02	.4202-02	.4941-02	3.216	22.03	576.1
211	32.000	.50000	832.00	.6830-01	.7270-01	.8560-01	.4337-02	.3570-02	.4204-02	2.710	19.11	582.3
211	32.000	.60000	833.00	.6650-01	.7110-01	.8380-01	.4246-02	.3492-02	.4115-02	2.640	17.45	585.6
211	32.000	.70000	834.00	.8160-01	.6700-01	.7910-01	.4008-02	.3291-02	.3884-02	2.469	18.53	591.1

(RV1811)

AEDC VKF V41B-57A (C4-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(190) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
211	32.000	.80000	835.00	.1175	.9850-01	.1139	.5788-02	.4738-02	.5590-02	3.560	25.01	590.0
211	32.000	.90000	836.00	.1331	.1258	.1503	.7515-02	.6175-02	.7382-02	4.145	33.73	589.2
211	32.000	.95000	837.00	.1654	.1350	.1634	.8123-02	.6677-02	.8021-02	5.031	37.81	587.9
211	32.000	.97500	838.00	.1679	.1378	.1652	.8243-02	.6767-02	.8161-02	5.059	39.37	592.4
211	32.000	1.0150	839.00	.1985	.1622	.1891	.9744-02	.7966-02	.9283-02	5.853	45.97	606.6
211	32.000	1.0300	840.00	.1963	.1608	.1871	.9535-02	.7897-02	.9185-02	5.872	44.69	597.8
211	32.000	1.0450	841.00	.2014	.1650	.1920	.9869-02	.8099-02	.9425-02	6.003	44.85	600.2
211	32.000	1.0500	842.00	.1642	.1347	.1566	.8060-02	.6615-02	.7687-02	4.947	39.83	593.5
211	45.000	.92500	959.00	.2580-01	.2150-01	.2580-01	.1267-02	.1054-02	.1267-02	8.380	6.216	546.1
211	45.000	.95000	973.00	.1600-02	.1400-02	.1600-02	.7966-04	.6632-04	.7966-04	5.300-01	.3550	540.5
211	45.000	.97500	978.00	.1500-02	.1300-02	.1500-02	.7447-04	.6201-04	.7447-04	5.000-01	.3700	540.0
211	75.000	.97500	977.00	.8000-03	.6000-03	.8000-03	.3802-04	.3165-04	.3802-04	2.500-01	.1890	540.3
211	85.000	.97500	976.00	.2290-02	.1900-02	.2300-02	.1138-03	.9476-04	.1138-03	7.600-01	.5650	540.6
211	180.00	.10000-01	53.000	.1735	.1434	.1735	.8521-02	.7041-02	.8521-02	5.441	39.91	568.7
211	180.00	.25000-01	60.000	.4800-01	.3300-01	.4800-01	.2359-02	.1959-02	.2359-02	1.549	11.09	550.7
211	180.00	.50000-01	61.000	.2030-01	.1750-01	.2030-01	.1022-02	.8492-03	.1022-02	6.750	4.222	546.3
211	180.00	.75000-01	62.000	.1040-01	.8700-02	.1040-01	.5112-03	.4251-03	.5112-03	3.380	2.153	545.2
211	180.00	.10000-00	63.000	.1020-01	.8550-02	.1020-01	.5004-03	.4161-03	.5004-03	3.310	2.171	544.9
211	180.00	.12500	64.000	.1290-01	.1070-01	.1290-01	.6316-03	.5251-03	.6316-03	4.180	2.907	545.5
211	180.00	.15000	65.000	.2450-01	.2030-01	.2450-01	.1201-02	.9986-03	.1201-02	7.940	5.519	546.6
211	180.00	.17000	66.000	.7380-01	.6120-01	.7380-01	.3621-02	.3003-02	.3621-02	2.360	13.07	555.4
211	180.00	.20000	67.000	.9680-01	.8200-01	.9680-01	.4851-02	.4025-02	.4851-02	3.170	17.57	553.8
211	180.00	.40100	69.000	.1480-01	.1230-01	.1480-01	.7248-03	.6030-03	.7248-03	4.810	2.981	543.0
211	180.00	.50000	72.000	.1240-01	.1030-01	.1240-01	.6098-03	.5074-03	.6098-03	4.050	3.442	542.7
211	180.00	.60100	73.000	.9900-02	.8300-02	.9900-02	.4882-03	.4063-03	.4882-03	3.250	2.758	542.2
211	180.00	.70100	74.000	.7400-02	.6100-02	.7400-02	.3627-03	.3019-03	.3627-03	2.410	1.986	541.6
211	180.00		75.000	.6200-02	.5200-02	.6200-02	.3058-03	.2554-03	.3058-03	2.040	1.629	541.1

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B12)

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
EDFLAP = 5.000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

PUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PC PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
197	7.900	.5309	40.10	.0000	180.0	108.2	.1200-01	1269.	94.20	.5250	3756.	.1071-04
198	7.900	.5274	40.10	.0000	180.0	107.7	.1200-01	1271.	94.30	.5230	3759.	.1065-04

PUN NUMBER	MU	LB-SEC /FT2	ST FR R =
197	.7580-07	.1733-01	0.0175
198	.7590-07	.1769-01	.5573-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO1 BTU/ R FT2SEC	H1TO1 BTU/ R FT2SEC	H1TAW1 BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
197	.00000	.00000	1.0000	.6126	.5349	.5485	.1086-01	.8949-02	.9722-02	6.462	35.93	547.3
197	.00000	.50000-02	2.0000	.7119	.5350	.5850	.1262-01	.1037-01	.1037-01	7.384	51.06	557.3
197	.00000	.10000-01	3.0000	.6866	.5648	.5713	.1217-01	.1031-01	.1013-01	7.162	48.11	553.9
197	.00000	.20000-01	4.0000	.4475	.3693	.3838	.7932-02	.6546-02	.6803-02	4.755	26.50	542.9
197	.00000	.30000-01	5.0000	.3427	.2830	.2983	.6074-02	.5016-02	.5286-02	3.657	20.41	540.3
197	.00000	.40000-01	6.0000	.2806	.2318	.2474	.4973-02	.4110-02	.4386-02	3.004	16.78	538.4
197	.00000	.50000-01	7.0000	.2811	.2319	.2498	.4082-02	.4111-02	.4427-02	2.983	20.14	543.6
197	.00000	.60000-01	8.0000	.2833	.2355	.2552	.5056-02	.4175-02	.4524-02	3.040	19.38	541.2
197	.00000	.70000-01	9.0000	.2491	.2056	.2242	.4415-02	.3644-02	.3974-02	2.648	18.45	542.6
197	.00000	.80000-01	10.000	.2035	.1681	.1843	.3609-02	.2890-02	.3286-02	2.168	15.11	541.8
197	.00000	.90000-01	11.000	.1540	.1503	.1763	.3439-02	.2841-02	.3124-02	2.074	13.24	539.2
197	.00000	.10000+00	12.000	.1800	.1487	.1641	.3190-02	.2635-02	.2928-02	1.925	11.62	539.1
197	.00000	.12000	14.000	.1855	.1359	.1518	.2935-02	.2427-02	.2650-02	1.778	9.938	536.7
197	.00000	.13000	15.000	.1587	.1312	.1457	.2813-02	.2325-02	.2582-02	1.701	10.00	537.8
197	.00000	.14000	16.000	.1457	.1205	.1339	.2583-02	.2135-02	.2374-02	1.563	9.984	537.3
197	.00000	.16000	18.000	.1523	.1259	.1402	.2693-02	.2231-02	.2465-02	1.632	10.13	537.8
197	.00000	.17000	19.000	.1517	.1254	.1399	.2689-02	.2222-02	.2479-02	1.625	10.37	538.2
197	.00000	.18000	20.000	.1504	.1243	.1388	.2666-02	.2203-02	.2460-02	1.610	10.28	538.5
197	.00000	.19000	21.000	.1514	.1252	.1399	.2684-02	.2219-02	.2460-02	1.625	10.38	537.0

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B12)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(19T) BTU/ R FT2SEC	H(10T) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
197	.00000	.20000	22.000	.1436	.1186	.1323	.2545-02	.2103-02	.2354-02	1.538	9.817	538.1
197	.00000	.22500	23.000	.1359	.1123	.1261	.2409-02	.1991-02	.2234-02	1.458	9.311	537.3
197	.00000	.25000	801.00	.1320	.1091	.1225	.2340-02	.1934-02	.2174-02	1.416	9.047	537.1
197	.00000	.30000	802.00	.1194	.0970-01	.1103	.2116-02	.1749-02	.1966-02	1.280	8.176	537.5
197	.00000	.35000	803.00	.1222	.1009	.1135	.2165-02	.1789-02	.2011-02	1.305	8.329	539.5
197	.00000	.40000	804.00	.1220	.1008	.1133	.2162-02	.1786-02	.2008-02	1.303	8.560	539.6
197	.00000	.45000	805.00	.1097	.0960-01	.1013	.1944-02	.1605-02	.1805-02	1.168	7.896	541.6
197	.00000	.50000	806.00	.9560-01	.8220-01	.9250-01	.1765-02	.1458-02	.1640-02	1.060	7.386	542.2
197	.00000	.55000	807.00	.9430-01	.7830-01	.8910-01	.1681-02	.1387-02	.1561-02	1.007	7.480	543.5
197	.00000	.60000	808.00	.6740-01	.7210-01	.8120-01	.1560-02	.1279-02	.1439-02	.9280	6.894	543.5
197	.00000	.65000	809.00	.8430-01	.8950-01	.7830-01	.1455-02	.1233-02	.1337-02	.8930	6.630	544.8
197	.00000	.70000	810.00	.7870-01	.8490-01	.7310-01	.1395-02	.1151-02	.1295-02	.8340	6.402	544.8
197	.00000	.75000	811.00	.8200-01	.8760-01	.7610-01	.1453-02	.1198-02	.1348-02	.8690	6.449	544.4
197	.00000	.80000	812.00	.8550-01	.9050-01	.7940-01	.1516-02	.1250-02	.1407-02	.9070	6.731	544.2
197	.00000	.85000	813.00	.7830-01	.8460-01	.7350-01	.1383-02	.1146-02	.1303-02	.8320	6.393	543.3
197	.00000	.90000	814.00	.7350-01	.8080-01	.6920-01	.1364-02	.1077-02	.1227-02	.7840	5.641	541.4
197	.00000	.95000	815.00	.6080-01	.5020-01	.5730-01	.1035-02	.8553-03	.9791-03	.6490	5.368	540.1
197	.00000	.95000	816.00	.5830-01	.4830-01	.5520-01	.1028-02	.8481-03	.9742-03	.6190	5.115	540.3
197	.00000	.95000	817.00	.5930-01	.4790-01	.5630-01	.1028-02	.8481-03	.9742-03	.6190	5.115	540.3
197	.00000	1.0150	818.00	.3170-01	.2620-01	.3020-01	.5621-03	.4645-03	.5346-03	.3400	3.715	537.8
197	.00000	1.0300	819.00	.4650-01	.3650-01	.4430-01	.8248-03	.6817-03	.7845-03	.4990	3.959	538.5
197	.00000	1.0450	820.00	.4650-01	.3650-01	.4430-01	.8248-03	.6817-03	.7845-03	.4990	3.959	538.5
197	.00000	1.0600	821.00	.4220-01	.3490-01	.4010-01	.7477-03	.6179-03	.7111-03	.4520	3.808	538.4
197	.00000	1.5000	822.00	.2630-02	.2400-02	.2600-02	.5028-04	.4168-04	.5028-04	.3100-01	.1880	527.3
197	.00000	1.5000	823.00	.8730-02	.7200-02	.8700-02	.1547-03	.1283-03	.1547-03	.9500-01	.5950	526.1
197	.00000	1.5000	824.00	.1350-01	.1130-01	.1097	.2413-03	.2000-03	.2413-03	.1480	.9020	527.1
197	.00000	1.5000	825.00	.1182	.9750-01	.1097	.2055-02	.1729-02	.1945-02	1.256	9.998	542.9
197	.00000	1.5000	826.00	.1086	.6950-01	.1003	.1925-02	.1567-02	.1785-02	1.150	9.144	545.0
197	.00000	1.5000	827.00	.7330-01	.6020-01	.6770-01	.1234-02	.1067-02	.1201-02	.7720	6.874	545.7
197	.00000	1.5000	828.00	.8350-01	.6890-01	.7750-01	.1481-02	.1221-02	.1374-02	.8940	6.560	545.4
197	.00000	1.5000	829.00	.8150-01	.6720-01	.7570-01	.1445-02	.1192-02	.1341-02	.8650	6.420	544.0
197	.00000	1.5000	830.00	.6730-01	.5550-01	.6330-01	.1193-02	.9552-03	.1122-02	.7170	5.714	541.4
197	.00000	1.5000	831.00	.5530-01	.7930-01	.9380-01	.1698-02	.1400-02	.1623-02	1.013	7.519	545.6
197	.00000	1.5000	832.00	.1042	.6500-01	.1042	.1848-02	.1525-02	.1848-02	1.107	8.222	543.4
197	.00000	1.5000	833.00	.1080	.6910-01	.1063	.1914-02	.1580-02	.1914-02	1.151	8.565	540.7
197	.00000	1.5000	834.00	.9000-02	.7500-02	.9000-02	.1601-03	.1328-03	.1601-03	.9900-01	.6160	526.2
197	.00000	1.5000	835.00	.7740-01	.6390-01	.7740-01	.1372-02	.1134-02	.1372-02	.8270	6.159	539.4
197	.00000	1.5000	836.00	.8840-01	.7300-01	.8340-01	.1567-02	.1295-02	.1537-02	.9450	7.032	539.6
197	.00000	1.5000	837.00	.4630-01	.3840-01	.4630-01	.8209-03	.6800-03	.8209-03	.5030	3.762	529.7
197	.00000	1.5000	838.00	.1356	.1145	.1287	.2457-02	.2029-02	.2282-02	1.477	10.29	541.5
197	.00000	1.5000	839.00	.1146	.9450-01	.1064	.2032-02	.1676-02	.1886-02	1.214	8.719	544.9
197	.00000	1.5000	840.00	.1026	.8460-01	.9520-01	.1819-02	.1499-02	.1686-02	1.083	7.303	546.8
197	.00000	1.5000	841.00	.1084	.8930-01	.1003	.1921-02	.1583-02	.1782-02	1.144	8.778	546.7

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) CRBITER FUSELAGE

Q	NUM	A	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1C) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT SEC	TH DEC. R
197	197	180.00	.80000	835.00	.7820-01	.6450-01	.7260-01	.1386-02	.1144-02	.1287-02	.8300	5.964	543.9
197	197	180.00	.90000	835.00	.6830-01	.5640-01	.6420-01	.1210-02	.9993-03	.1138-02	.7280	5.414	540.9
197	197	180.00	.95000	837.00	.7630-01	.6350-01	.7370-01	.1352-02	.1125-02	.1288-02	.8210	6.318	539.9
197	197	180.00	.97500	838.00	.7600-01	.6280-01	.7340-01	.1347-02	.1113-02	.1277-02	.8120	6.474	539.8
197	197	180.00	1.0150	839.00	.4070-01	.3360-01	.3720-01	.7207-03	.5956-03	.6598-03	.4360	3.539	538.0
197	197	180.00	1.0300	840.00	.6110-01	.5050-01	.5330-01	.1082-02	.8946-03	.9911-03	.6550	5.135	537.5
197	197	180.00	1.0450	841.00	.6910-01	.5710-01	.6330-01	.1225-02	.1012-02	.1121-02	.7390	5.696	538.8
197	197	180.00	1.0600	842.00	.6930-01	.5450-01	.6170-01	.1175-02	.9715-03	.1076-02	.7110	5.888	537.4
197	197	180.00	.92500	969.00	.5800-02	.4100-02	.5000-02	.1737-03	.1439-03	.1737-03	.1070	.7990	527.9
197	197	180.00	.95000	973.00	.7000-03	.2000-03	.3300-03	.4597-05	.3811-05	.4597-05	.3000-02	.2100-01	526.9
197	197	180.00	.97500	978.00	.1300-02	.8000-03	.1300-02	.1748-04	.1449-04	.1448-04	.1100-01	.8100-01	526.5
197	197	180.00	.97500	977.00	.3300-03	.3300-03	.3300-03	.5538-05	.4641-05	.5538-05	.3000-02	.2600-01	526.4
197	197	180.00	.97500	976.00	.1000-03	.1000-03	.1300-03	.1900-05	.1576-05	.1900-05	.1000-02	.9000-02	525.2
197	197	180.00	.10000-01	59.000	.1108	.9170-01	.1109	.1985-02	.1625-02	.1985-02	.1192	8.894	535.5
197	197	180.00	.25000-01	60.000	.2330-01	.2480-01	.2390-01	.5302-03	.4339-03	.5302-03	.3240	2.341	531.7
197	197	180.00	.50000-01	61.000	.1540-01	.1270-01	.1340-01	.2722-03	.2254-03	.2722-03	.1670	1.068	530.1
197	197	180.00	.75000-01	62.000	.1050-01	.8700-02	.1350-01	.1859-03	.1549-03	.1559-03	.1150	.7350	529.1
197	197	180.00	.10000+00	63.000	.1160-01	.9600-02	.1160-01	.2054-03	.1702-03	.2054-03	.1260	.8320	528.6
197	197	180.00	.12500	64.000	.1600-01	.1320-01	.1500-01	.2831-03	.2346-03	.2831-03	.1740	1.221	528.0
197	197	180.00	.15000	65.000	.2320-01	.1920-01	.2320-01	.4111-03	.3407-03	.4111-03	.2530	1.773	529.1
197	197	180.00	.16000	66.000	.5200-01	.5140-01	.6300-01	.1100-02	.9111-03	.1100-02	.6740	3.784	530.8
197	197	180.00	.17000	67.000	.7940-01	.5830-01	.7340-01	.1248-02	.1034-02	.1248-02	.7640	4.281	527.3
197	197	180.00	.20000	69.000	.1780-01	.1470-01	.1780-01	.3148-03	.2609-03	.3148-03	.1940	1.208	526.8
197	197	180.00	.40100	72.000	.2600-02	.2400-02	.2400-02	.5048-04	.4185-04	.5048-04	.3100-01	.2660	526.7
197	197	180.00	.50000	73.000	.3300-02	.2700-02	.3300-02	.5759-04	.4783-04	.5759-04	.3600-01	.3050	526.8
197	197	180.00	.60100	74.000	.3500-02	.3000-02	.3500-02	.6364-04	.5293-04	.6364-04	.3900-01	.3260	525.8
197	197	180.00	.70100	75.000	.3800-02	.3300-02	.3800-02	.6759-04	.5605-04	.6759-04	.4200-01	.3350	525.8

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AEDC VKF V41B-57A (OH-498) COLLAT'ON DECK

PAGE 280

OH-428 (AEDC V41B-57A) CRBITER FUSELAGE

(RV1B12)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPDRRK = .0000  
 BDFLAP = 5.000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	FO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
203	7.940	.9997	40.05	.0000	180.0	209.0	.2200-01	1279.	94.30	.9920	3772.	.2006-04
204	7.940	1.003	40.07	.0000	180.0	209.2	.2200-01	1277.	93.90	.9930	3770.	.2011-04

RUN NUMBER	MU	HREF	BTU/ R FT2SEC	ST FR R =
203	.7569-07	.2439-01	.4064-01	
204	.7558-07	.2440-01	.4058-01	

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1GTO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
203	.0000	.0000	1.0000	.6147	.5061	.5502	.1493-01	.1235-01	.1342-01	8.970	49.73	553.2
203	.0000	.5000-02	2.0000	.7087	.5814	.5814	.1729-01	.1418-01	.1418-01	10.10	69.48	567.3
203	.0000	.1000-01	3.0000	.6183	.5080	.5139	.1508-01	.1239-01	.1253-01	8.334	59.43	562.3
203	.0000	.2000-01	4.0000	.4421	.3648	.3752	.1078-01	.6898-02	.9249-02	6.511	36.20	547.6
203	.0000	.3000-01	5.0000	.3362	.2777	.2932	.8200-02	.6773-02	.7152-02	4.981	27.74	544.0
203	.0000	.4000-01	6.0000	.2824	.2335	.2452	.6658-02	.5634-02	.6077-02	4.204	23.45	541.1
203	.0000	.5000-01	7.0000	.2781	.2294	.2472	.6783-02	.5535-02	.6028-02	4.091	27.56	548.3
203	.0000	.6000-01	8.0000	.2851	.2354	.2351	.6853-02	.5741-02	.6222-02	4.215	26.81	545.2
203	.0000	.7000-01	9.0000	.2504	.2067	.2265	.6108-02	.5041-02	.5493-02	3.689	25.64	547.4
203	.0000	.8000-01	10.000	.2004	.1655	.1814	.4887-02	.4035-02	.4424-02	2.968	20.66	544.2
203	.0000	.9000-01	11.000	.1875	.1550	.1705	.4574-02	.3781-02	.4158-02	2.791	17.79	541.2
203	.0000	1.0000	12.000	.1739	.1437	.1566	.4241-02	.3504-02	.3858-02	2.581	15.55	542.8
203	.0000	1.0000	13.000	.1474	.1219	.1351	.3837-02	.2973-02	.3256-02	2.200	12.28	539.4
203	.0000	15.000	15.000	.1573	.1300	.1444	.3563-02	.2945-02	.3275-02	2.340	13.74	541.5
203	.0000	16.000	16.000	.1461	.1208	.1343	.3563-02	.2945-02	.3275-02	2.175	13.87	540.8
203	.0000	16.000	16.000	.1465	.1227	.1368	.3521-02	.2933-02	.3336-02	2.208	13.68	541.8
203	.0000	17.000	17.000	.1488	.1230	.1372	.3529-02	.2933-02	.3347-02	2.210	14.08	542.5
203	.0000	18.000	18.000	.1512	.1250	.1396	.3589-02	.3048-02	.3405-02	2.246	14.31	542.5
203	.0000	19.000	19.000	.1475	.1219	.1363	.3597-02	.2974-02	.3325-02	2.199	14.03	535.9

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) CRBITER FUSELAGE

(RV1812)

RUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAW)	H(IST) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
203	.00000	.20000	22.000	.1433	.1185	.1326	.3496-02	.2889-02	.3235-02	2.170	13.57	542.2
203	.00000	.22500	23.000	.1331	.1100	.1235	.3246-02	.2889-02	.3011-02	1.981	12.63	541.0
203	.00000	.25000	801.00	.1319	.1090	.1225	.3216-02	.2859-02	.2983-02	1.953	12.52	541.0
203	.00000	.30000	802.00	.1213	.1002	.1127	.2957-02	.2445-02	.2748-02	1.804	11.50	541.6
203	.00000	.35000	803.00	.1243	.1027	.1155	.3033-02	.2505-02	.2817-02	1.841	11.72	544.2
203	.00000	.40000	804.00	.1187	.9800-01	.1103	.2895-02	.2391-02	.2683-02	1.757	11.51	544.5
203	.00000	.45000	805.00	.1106	.9130-01	.1027	.2697-02	.2227-02	.2505-02	1.634	11.02	545.8
203	.00000	.50000	806.00	.9690-01	.8000-01	.9000-01	.2353-02	.1951-02	.2195-02	1.430	9.944	546.3
203	.00000	.55000	807.00	.9170-01	.7560-01	.8510-01	.2236-02	.1844-02	.2076-02	1.348	9.989	548.4
203	.00000	.60000	808.00	.8480-01	.7000-01	.7830-01	.2059-02	.1707-02	.1921-02	1.247	9.242	548.5
203	.00000	.65000	809.00	.7750-01	.6760-01	.7510-01	.2000-02	.1649-02	.1856-02	1.202	8.899	550.3
203	.00000	.70000	810.00	.7050-01	.6400-01	.7210-01	.1832-02	.1560-02	.1755-02	1.136	8.700	550.8
203	.00000	.75000	811.00	.8380-01	.6910-01	.7750-01	.2044-02	.1685-02	.1837-02	1.229	9.094	550.3
203	.00000	.80000	812.00	.8430-01	.6950-01	.7820-01	.2056-02	.1695-02	.1908-02	1.236	9.153	550.1
203	.00000	.85000	813.00	.8010-01	.6600-01	.7510-01	.1953-02	.1611-02	.1833-02	1.176	9.007	549.5
203	.00000	.90000	814.00	.7470-01	.6170-01	.7030-01	.1823-02	.1504-02	.1714-02	1.100	7.890	547.9
203	.00000	.92500	815.00	.6140-01	.5070-01	.5750-01	.1497-02	.1236-02	.1412-02	.9060	7.462	546.7
203	.00000	.95000	816.00	.6050-01	.4930-01	.5720-01	.1475-02	.1218-02	.1335-02	.8910	7.343	547.3
203	.00000	.97500	817.00	.5530-01	.4850-01	.5550-01	.1438-02	.1186-02	.1353-02	.8650	7.122	549.5
203	.00000	1.0150	818.00	.7050-01	.5840-01	.6750-01	.1728-02	.1423-02	.1642-02	1.040	7.701	549.5
203	.00000	1.0300	819.00	.9750-01	.8050-01	.9270-01	.2379-02	.1963-02	.2262-02	1.437	10.65	547.5
203	.00000	1.0450	820.00	.1154	.9520-01	.1057	.2815-02	.2321-02	.2676-02	1.692	13.42	550.5
203	.00000	1.0600	821.00	.1234	.1017	.1173	.3009-02	.2480-02	.2860-02	1.804	15.11	551.9
203	.00000	89.000	89.000	.4800-02	.4000-02	.4800-02	.1171-03	.9714-04	.1171-03	.7300-01	.4440	527.3
203	.00000	91.000	91.000	.8500-02	.7000-02	.8500-02	.2065-03	.1714-03	.2065-03	.1290	.8070	525.5
203	.00000	93.000	93.000	.7100-02	.5900-02	.7100-02	.1732-03	.1437-03	.1732-03	1.080	.6560	527.5
203	.00000	823.00	823.00	.1169	.9540-01	.1055	.2851-02	.2351-02	.2647-02	1.716	13.62	549.3
203	.00000	824.00	824.00	.1057	.8710-01	.9810-01	.2578-02	.2125-02	.2393-02	1.547	12.26	551.5
203	.00000	825.00	825.00	.7180-01	.5320-01	.6560-01	.1751-02	.1444-02	.1623-02	1.051	9.329	551.4
203	.00000	826.00	826.00	.8190-01	.6750-01	.7600-01	.1997-02	.1645-02	.1853-02	1.196	8.842	552.6
203	.00000	827.00	827.00	.8140-01	.6720-01	.7550-01	.1937-02	.1638-02	.1844-02	1.194	8.842	550.2
203	.00000	828.00	828.00	.6490-01	.5350-01	.6110-01	.1583-02	.1307-02	.1489-02	.9560	7.591	547.8
203	.00000	971.00	971.00	.1272	.1048	.1272	.3102-02	.2555-02	.3102-02	1.854	13.70	553.8
203	.00000	975.00	975.00	.1236	.1058	.1236	.3161-02	.2506-02	.3161-02	1.895	14.03	551.7
203	.00000	980.00	980.00	.1273	.1050	.1273	.3105-02	.2562-02	.3105-02	1.872	13.87	548.8
203	.00000	93.000	93.000	.1050-01	.8700-02	.1050-01	.2561-03	.2126-03	.2561-03	1.600	1.000	525.9
203	.00000	974.00	974.00	.1193	.9840-01	.1193	.2909-02	.2400-02	.2909-02	1.757	13.02	547.6
203	.00000	975.00	975.00	.1435	.1183	.1435	.3500-02	.2885-02	.3500-02	2.103	15.56	550.7
203	.00000	979.00	979.00	.6510-01	.7040-01	.8510-01	.2075-02	.1718-02	.2175-02	1.278	9.530	535.6
203	.00000	.83100+10	.83100+10	.1355	.1119	.1259	.3307-02	.2729-02	.3071-02	2.000	13.91	546.6
203	.00000	832.00	832.00	.1106	.9120-01	.1027	.2697-02	.2244-02	.2504-02	1.619	11.60	551.1
203	.00000	833.00	833.00	.9870-01	.8130-01	.9160-01	.2407-02	.1983-02	.2234-02	1.442	9.692	552.5
203	.00000	834.00	834.00	.8270-01	.6810-01	.7610-01	.2016-02	.1662-02	.1871-02	1.208	9.246	552.1

(RV1812)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) CREITER FUSELAGE

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(19T0) FT2SEC	H(1T0) FT2SEC	H(1TAW) FT2SEC	QDOT BTU/SEC	DTWDT DEG. R /SEC	TW DEG. R
203	32.000	.80000	835.00	.7450-01	.6150-01	.6920-01	.1818-02	.1498-02	.1688-02	1.092	7.821	550.8
203	32.000	.90000	835.00	.6850-01	.5660-01	.6460-01	.1674-02	.1381-02	.1575-02	1.011	7.498	547.3
203	32.000	.95000	837.00	.7790-01	.6430-01	.7370-01	.1900-02	.1569-02	.1797-02	1.150	8.825	546.2
203	32.000	.97500	838.00	.7610-01	.6470-01	.7430-01	.1911-02	.1578-02	.1812-02	1.158	9.211	545.3
203	32.000	1.0150	839.00	.4170-01	.3440-01	.3920-01	.1018-02	.8399-03	.9316-03	.6140	4.962	548.4
203	32.000	1.0300	840.00	.6710-01	.5540-01	.6140-01	.1636-02	.1350-02	.1497-02	.9890	7.724	546.7
203	32.000	1.0450	841.00	.7680-01	.6340-01	.7030-01	.1873-02	.1546-02	.1714-02	1.134	8.700	546.1
203	32.000	1.0600	842.00	.7220-01	.5970-01	.6510-01	.1762-02	.1455-02	.1613-02	1.070	8.824	544.3
203	45.000	.92500	969.00	.2240-01	.1860-01	.2240-01	.5469-03	.4538-03	.5469-03	.3410	2.552	528.0
203	45.000	.95000	973.00	.1330-02	.1100-02	.1300-02	.3244-04	.2693-04	.3244-04	.2000-01	.1520	525.6
203	45.000	.97500	978.00	.1260-02	.1000-02	.1200-02	.2984-04	.2478-04	.2984-04	.1900-01	.1400	525.1
203	75.000	.97500	977.00	.3030-03	.3000-03	.3000-03	.7530-05	.6253-05	.7530-05	.5000-02	.3500-01	524.9
203	85.000	.97500	976.00	.4000-03	.3000-03	.4000-03	.8722-05	.7244-05	.8722-05	.5000-02	.4100-01	524.8
203	100.00	.10000-01	53.000	.1074	.6890-01	.1074	.2619-02	.2168-02	.2619-02	1.610	12.00	536.6
203	180.00	.25000-01	60.000	.2840-01	.2350-01	.2810-01	.6923-03	.5739-03	.6923-03	.4290	3.104	531.5
203	180.00	.50000-01	61.000	.1400-01	.1160-01	.1400-01	.3419-03	.2836-03	.3419-03	.2130	1.763	529.7
203	180.00	.75000-01	62.000	.1120-01	.9300-02	.1120-01	.2738-03	.2271-03	.2738-03	.1700	1.093	528.9
203	180.00	1.0000+00	63.000	.1530-01	.1270-01	.1530-01	.3725-03	.3090-03	.3725-03	.2320	1.532	528.7
203	180.00	.12500	64.000	.2250-01	.1870-01	.2250-01	.5500-03	.4563-03	.5500-03	.3430	2.404	528.5
203	180.00	.15000	65.000	.3090-01	.2560-01	.3090-01	.7539-03	.6254-03	.7539-03	.4690	3.294	528.7
203	180.00	.16000	66.000	.8130-01	.6740-01	.8130-01	.1983-02	.1644-02	.1983-02	1.228	6.863	532.1
203	180.00	.17000	67.000	.9650-01	.8000-01	.9650-01	.2354-02	.1950-02	.2354-02	1.456	8.153	533.0
203	180.00	.20000	69.000	.1500-01	.1570-01	.1500-01	.4627-03	.3840-03	.4627-03	.2890	1.804	527.0
203	180.00	.40100	72.000	.3900-02	.3200-02	.3900-02	.9491-04	.7881-04	.9491-04	.5900-01	.5100	525.5
203	180.00	.50000	73.000	.4100-02	.3400-02	.4100-02	.9910-04	.8227-04	.9910-04	.5200-01	.5320	525.8
203	180.00	.60100	74.000	.4400-02	.3700-02	.4400-02	.1073-03	.8908-04	.1073-03	.6700-01	.5580	525.7
203	180.00	.70100	75.000	.3400-02	.2800-02	.3400-02	.8192-04	.6803-04	.8192-04	.5100-01	.4130	524.6

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

FUSELAGE

PARAMETRIC DATA

ALPHA = +0.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
BDFLAP = 5.000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MDEL DEG.	P3 PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
207	7.980	1.969	40.12	.0000	180.0	427.3	.4400-01	1300.	94.70	1.983	3804.	.3943-04
208	7.980	1.987	40.06	.0000	180.0	427.5	.4500-01	1292.	94.10	1.984	3793.	.3969-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
207	.7620-07	.3459-01	0.0175
208	.7575-07	.3456-01	.2892-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TA4)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
207	.00000	.00000	1.0000	.5941	.4888	.5314	.2055-01	.1690-01	.1838-01	12.40	68.27	566.7
207	.00000	.5020-02	2.0000	.7007	.5728	.5723	.2423-01	.1981-01	.1981-01	14.12	96.16	587.6
207	.00000	.10000-01	3.0000	.6259	.5129	.5183	.2165-01	.1774-01	.1794-01	12.77	84.65	580.3
207	.00000	.20000-01	4.0000	.4338	.3617	.3760	.1517-01	.1251-01	.1300-01	9.267	51.22	559.4
207	.00000	.30000-01	5.0000	.3338	.2805	.2962	.1175-01	.9705-02	.1025-01	7.243	40.14	553.8
207	.00000	.40000-01	6.0000	.3077	.2544	.2713	.1064-01	.8798-02	.9388-02	6.598	36.63	550.2
207	.00000	.50000-01	7.0000	.2751	.2267	.2443	.9514-02	.7642-02	.8448-02	5.800	38.84	560.4
207	.00000	.60000-01	8.0000	.2816	.2324	.2513	.9739-02	.8037-02	.8709-02	5.979	37.82	556.2
207	.00000	.80000-01	10.000	.1995	.1647	.1803	.6900-02	.5655-02	.6243-02	4.247	29.41	554.6
207	.00000	.90000-01	11.000	.1926	.1592	.1750	.6659-02	.5505-02	.6051-02	4.128	26.19	550.2
207	.00000	.10000+00	12.000	.1742	.1440	.1583	.6025-02	.4981-02	.5435-02	3.734	22.41	550.3
207	.00000	.12000	14.000	.1589	.1315	.1457	.5497-02	.4548-02	.5040-02	3.427	19.06	546.6
207	.00000	.13000	15.000	.1562	.1291	.1434	.5401-02	.4466-02	.4958-02	3.354	19.62	549.1
207	.00000	.14000	16.000	.1436	.1188	.1320	.4966-02	.4108-02	.4555-02	3.089	19.62	548.0
207	.00000	.15000	18.000	.1519	.1280	.1423	.5356-02	.4427-02	.4932-02	3.322	20.49	549.9
207	.00000	.16000	19.000	.1509	.1247	.1391	.5217-02	.4312-02	.4810-02	3.229	20.48	551.2
207	.00000	.18000	20.000	.1482	.1225	.1367	.5126-02	.4236-02	.4729-02	3.171	20.11	551.5
207	.00000	.19000	21.000	.1430	.1182	.1321	.4945-02	.4089-02	.4569-02	3.074	19.52	548.4
207	.00000	.20000	22.000	.1419	.1173	.1313	.4907-02	.4056-02	.4539-02	3.039	19.28	550.0

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OH-49B (AEDC V41B-57A) OFBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1AM) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
207	.00000	.22500	23.000	.1356	.1121	.1258	.4689-02	.3877-02	.4349-02	2.911	18.48	549.4
207	.00000	.25000	801.00	.1293	.1069	.1202	.4473-02	.3699-02	.4155-02	2.774	17.61	549.8
207	.00000	.30000	802.00	.1207	.9970-01	.1121	.4173-02	.3449-02	.3876-02	2.584	16.39	550.9
207	.00000	.35000	803.00	.1268	.1047	.1177	.4365-02	.3620-02	.4071-02	2.696	17.07	555.2
207	.00000	.40000	804.00	.1231	.1016	.1143	.4258-02	.3514-02	.3953-02	2.615	17.04	555.9
207	.00000	.45000	805.00	.1090	.8990-01	.1012	.3771-02	.3109-02	.3499-02	2.303	15.42	559.4
207	.00000	.50000	806.00	.9860-01	.8130-01	.9150-01	.3410-02	.2811-02	.3164-02	2.079	14.35	560.6
207	.00000	.55000	807.00	.9490-01	.7810-01	.8600-01	.3220-02	.2701-02	.3043-02	1.989	14.62	563.8
207	.00000	.60000	808.00	.8600-01	.7240-01	.8160-01	.3042-02	.2505-02	.2822-02	1.843	13.55	564.4
207	.00000	.65000	809.00	.8510-01	.7000-01	.7890-01	.2943-02	.2421-02	.2729-02	1.773	13.01	567.7
207	.00000	.70000	810.00	.9040-01	.7430-01	.8390-01	.3125-02	.2570-02	.2897-02	1.878	14.24	569.4
207	.00000	.75000	811.00	.9950-01	.8180-01	.9220-01	.3442-02	.2829-02	.3190-02	2.066	15.14	570.0
207	.00000	.80000	812.00	.1248	.1010	.1135	.4249-02	.3452-02	.3938-02	2.551	18.70	569.6
207	.00000	.85000	813.00	.1323	.1087	.1240	.4576-02	.3760-02	.4287-02	2.743	20.80	570.6
207	.00000	.90000	814.00	.1414	.1163	.1326	.4669-02	.4021-02	.4532-02	2.942	20.89	568.3
207	.00000	.92500	815.00	.1268	.1043	.1194	.4384-02	.3507-02	.4129-02	2.647	21.60	566.3
207	.00000	.95000	816.00	.1371	.1127	.1294	.4740-02	.3856-02	.4475-02	2.845	23.17	569.9
207	.00000	.97500	817.00	.1548	.1270	.1465	.5353-02	.4333-02	.5065-02	3.185	25.87	575.2
207	.00000	1.0150	818.00	.2096	.1720	.1985	.7249-02	.5947-02	.6879-02	4.306	31.47	576.0
207	.00000	1.0300	819.00	.2332	.1914	.2213	.8065-02	.6619-02	.7655-02	4.799	35.09	575.1
207	.00000	1.0450	820.00	.2291	.1876	.2172	.7923-02	.6489-02	.7515-02	4.663	36.41	581.5
207	.00000	1.0500	821.00	.2024	.1659	.1920	.6999-02	.5736-02	.6640-02	4.133	34.13	573.7
207	.00000	1.5000	89.000	.4900-02	.4100-02	.4900-02	.1699-03	.1412-03	.1699-03	.1080	.6570	531.7
207	11.500	20000	91.000	.8300-02	.6900-02	.8300-02	.2863-03	.2380-03	.2863-03	.1830	1.144	529.1
207	14.000	50000-01	90.000	.1200-01	.9900-02	.1200-01	.4139-03	.3440-03	.4139-03	.2550	1.603	531.0
207	17.500	40000	823.00	.1128	.9290-01	.1046	.3901-02	.3213-02	.3619-02	2.368	18.66	563.1
207	17.500	50000	824.00	.1064	.8760-01	.9870-01	.3681-02	.3029-02	.3413-02	2.222	17.48	566.5
207	17.500	60000	825.00	.7180-01	.5900-01	.6650-01	.2482-02	.2041-02	.2301-02	1.495	13.16	568.0
207	17.500	70000	826.00	.9600-01	.7890-01	.8900-01	.3321-02	.2729-02	.3078-02	1.988	14.56	571.7
207	17.500	80000	827.00	.1157	.9510-01	.1076	.4031-02	.3283-02	.3708-02	2.404	17.63	569.1
207	17.500	90000	828.00	.1228	.1010	.1153	.4247-02	.3493-02	.3969-02	2.558	20.11	569.9
207	20.000	92500	971.00	.1534	.1261	.1534	.5305-02	.4351-02	.5305-02	3.185	23.35	569.9
207	20.000	95000	975.00	.1680	.1380	.1680	.5810-02	.4772-02	.5810-02	3.474	25.44	572.1
207	20.000	97500	980.00	.1634	.1343	.1634	.5650-02	.4643-02	.5650-02	3.388	24.83	570.4
207	24.000	20000	93.000	.1090-01	.9100-02	.1090-01	.3776-03	.3139-03	.3776-03	.2420	1.507	529.8
207	30.000	92500	970.00	.1430	.1179	.1430	.4947-02	.4076-02	.4947-02	3.011	22.16	561.5
207	30.000	95000	974.00	.1770	.1455	.1770	.6121-02	.5032-02	.6121-02	3.678	26.97	569.2
207	30.000	97500	979.00	.1135	.9390-01	.1135	.3925-02	.3248-02	.3925-02	2.449	18.16	546.3
207	32.000	40000	83100+10	.1340	.1105	.1244	.4636-02	.3823-02	.4636-02	2.834	19.59	558.6
207	32.000	50000	832.00	.1203	.9300-01	.1115	.4160-02	.3424-02	.4160-02	2.515	17.88	565.5
207	32.000	60000	833.00	.9990-01	.8210-01	.9260-01	.3455-02	.2841-02	.3455-02	2.075	13.83	569.5
207	32.000	70000	834.00	.8570-01	.7040-01	.7940-01	.2965-02	.2436-02	.2965-02	1.773	13.43	572.2
207	32.000	80000	835.00	.1035	.8500-01	.9590-01	.3576-02	.2941-02	.3576-02	2.147	15.23	570.0

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1812)

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF P=1.0	H/HREF (TAW)	H(OTO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
207	32.000	.90000	836.00	.1201	.9880-01	.1129	.4154-02	.3902-02	2.508	18.41	566.4
207	32.000	.95000	837.00	.1440	.1185	.1350	.4981-02	.4703-02	3.004	22.81	567.0
207	32.000	.97500	838.00	.1547	.1272	.1485	.5351-02	.5065-02	3.212	25.23	568.8
207	32.000	1.0150	839.00	.1782	.1460	.1625	.6164-02	.5619-02	3.628	28.85	581.6
207	32.000	1.0300	840.00	.1852	.1521	.1590	.6406-02	.5846-02	3.818	29.40	574.0
207	32.000	1.0450	841.00	.2029	.1665	.1731	.7017-02	.6402-02	4.173	31.56	575.4
207	32.000	1.0500	842.00	.1623	.1333	.1481	.5611-02	.5123-02	3.359	27.34	571.5
207	45.000	.92500	969.00	.3370-01	.2800-01	.3370-01	.1156-02	.1166-02	.7400	5.515	535.6
207	45.000	.95000	973.00	.2100-02	.1700-02	.2100-02	.7230-04	.7230-04	.4600-01	.3470	529.4
207	45.000	.97500	978.00	.1500-02	.1200-02	.1300-02	.5047-04	.5047-04	.3200-01	.2420	529.0
207	75.000	.97500	977.00	.5000-03	.4000-03	.5000-03	.1772-04	.1772-04	.1100-01	.8500-01	528.9
207	85.000	.97500	976.00	.5000-03	.4000-03	.5000-03	.1749-04	.1749-04	.1100-01	.8400-01	528.5
207	180.00	.10000-01	59.000	.1046	.8670-01	.1345	.3618-02	.3618-02	2.276	16.92	541.1
207	180.00	.25000-01	60.000	.2590-01	.2140-01	.2590-01	.8936-03	.8936-03	.5670	4.094	535.4
207	180.00	.50000-01	61.000	.1310-01	.1090-01	.1310-01	.4543-03	.4543-03	.2890	1.649	534.0
207	180.00	.75000-01	62.000	.1250-01	.1040-01	.1350-01	.4324-03	.4324-03	.2750	1.762	533.5
207	180.00	.10000+00	63.000	.2040-01	.1760-01	.2340-01	.7059-03	.7059-03	.4500	2.963	533.8
207	180.00	.12500	64.000	.2740-01	.2280-01	.2740-01	.9483-03	.9483-03	.6040	4.225	533.6
207	180.00	.15000	65.000	.3670-01	.3050-01	.3370-01	.1269-02	.1269-02	.8070	5.650	534.0
207	180.00	.16000	66.000	.9330-01	.7730-01	.9330-01	.3226-02	.3226-02	2.035	11.36	539.4
207	180.00	.17500	67.000	.1094	.9070-01	.1394	.3783-02	.3783-02	2.335	13.31	539.7
207	180.00	.20000	69.000	.1890-01	.1570-01	.1390-01	.6549-03	.6549-03	.4190	2.610	530.5
207	180.00	.40100	72.000	.5100-02	.4200-02	.5100-02	.1763-03	.1763-03	.1130	.9680	529.2
207	180.00	.50000	73.000	.5600-02	.4700-02	.5600-02	.1937-03	.1937-03	.1240	1.062	529.3
207	180.00	.60100	74.000	.5600-02	.4600-02	.5500-02	.1933-03	.1933-03	.1240	1.027	529.3
207	180.00	.70100	75.000	.4300-02	.3500-02	.4300-02	.1476-03	.1476-03	.9500-01	.7610	528.4

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1812)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = 5.000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	FO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
213	8.000	3.770	40.09	.0000	180.0	858.9	.8800-01	1337.	96.90	3.941	3858.	.7620-04
RUN NUMBER	MU	HREF BTU/ R	ST FR R =									
213	.7798-07	.4899-01	C 0175 .2094-01									

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(GTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
213	.00000	.00000	1.0000	.5934	.4865	.5296	.2907-01	.2383-01	.2595-01	17.68	96.04	594.7
213	.00000	.50000-02	2.0000	.6963	.5676	.5676	.3414-01	.2781-01	.2781-01	20.04	134.6	616.1
213	.00000	.10000-01	3.0000	.6258	.5113	.5174	.3066-01	.2505-01	.2535-01	18.29	119.7	606.4
213	.00000	.20000-01	4.0000	.4360	.3594	.3726	.2136-01	.1751-01	.1831-01	13.40	73.43	575.9
213	.00000	.30000-01	5.0000	.3342	.2761	.2915	.1637-01	.1353-01	.1428-01	10.40	57.22	568.0
213	.00000	.40000-01	6.0000	.2861	.2366	.2565	.1402-01	.1159-01	.1237-01	8.969	49.48	563.1
213	.00000	.50000-01	7.0000	.2759	.2273	.2439	.1352-01	.1114-01	.1200-01	8.448	56.07	578.0
213	.00000	.60000-01	8.0000	.2817	.2324	.2519	.1380-01	.1139-01	.1234-01	8.697	54.57	572.8
213	.00000	.70000-01	9.0000	.2464	.2030	.2216	.1207-01	.9546-02	.1086-01	7.546	51.65	578.0
213	.00000	.80000-01	10.000	.1991	.1643	.1801	.9752-02	.8050-02	.8225-02	6.162	42.32	571.1
213	.00000	.90000-01	11.000	.1876	.1550	.1705	.9189-02	.7596-02	.8331-02	5.859	36.89	565.4
213	.00000	.10000+00	12.000	.1745	.1442	.1591	.8548-02	.7066-02	.7795-02	5.447	32.44	565.8
213	.00000	.12000	14.000	.1624	.1344	.1469	.7954-02	.6585-02	.7295-02	5.112	28.24	560.4
213	.00000	.13000	15.000	.1532	.1268	.1407	.7505-02	.6211-02	.6894-02	4.810	27.94	562.2
213	.00000	.14000	16.000	.1423	.1177	.1309	.6973-02	.5767-02	.6411-02	4.458	28.09	563.8
213	.00000	.16000	18.000	.1520	.1256	.1400	.7448-02	.6134-02	.6758-02	4.733	28.95	567.5
213	.00000	.17000	19.000	.1497	.1236	.1380	.7333-02	.6055-02	.6759-02	4.645	29.19	569.6
213	.00000	.18000	20.000	.1512	.1243	.1355	.7403-02	.6116-02	.6834-02	4.684	29.41	570.9
213	.00000	.19000	21.000	.1517	.1253	.1401	.7431-02	.6140-02	.6865-02	4.726	29.74	567.0
213	.00000	.20000	22.000	.1415	.1168	.1309	.6934-02	.5724-02	.6412-02	4.385	27.54	570.7
213	.00000	.22500	23.000	.1323	.1093	.1227	.6484-02	.5354-02	.6011-02	4.108	25.81	569.5

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



(RV1812)

## AEDC VKF V41B-57A (OH-49B) COLLATION DECK

## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAU)	H19T0 BTU/R FT2SEC	H1T0 BTU/R FT2SEC	H1TAH BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
213	.00000	.25000	801.00	.1290	.1065	.1198	.6319-02	.5216-02	.5867-02	3.995	25.09	570.7
213	.00000	.30000	802.00	.1209	.5980-01	.1123	.5925-02	.4888-02	.5500-02	3.735	23.43	572.6
213	.00000	.35000	803.00	.1300	.1070	.1206	.6359-02	.5244-02	.5908-02	3.970	24.82	579.7
213	.00000	.40000	804.00	.1223	.1007	.1134	.5932-02	.4932-02	.5557-02	3.729	23.99	580.7
213	.00000	.45000	805.00	.1102	.5050-01	.1021	.5397-02	.4440-02	.5004-02	3.344	22.13	583.5
213	.00000	.50000	806.00	.1058	.8690-01	.9810-01	.5183-02	.4804-02	.4804-02	3.197	21.79	586.1
213	.00000	.55000	807.00	.1110	.9110-01	.1028	.5438-02	.4461-02	.5037-02	3.320	24.07	592.5
213	.00000	.60000	808.00	.1350	.1107	.1250	.6614-02	.5422-02	.6124-02	4.020	29.10	595.3
213	.00000	.65000	809.00	.2142	.1746	.1979	.1049-01	.8555-02	.9594-02	6.195	44.47	612.6
213	.00000	.70000	810.00	.3144	.2551	.2833	.1540-01	.1250-01	.1420-01	8.851	65.22	628.4
213	.00000	.75000	811.00	.3593	.2911	.3311	.1760-01	.1426-01	.1632-01	10.04	71.37	632.7
213	.00000	.80000	812.00	.3621	.2933	.3336	.1774-01	.1437-01	.1635-01	10.11	71.83	633.2
213	.00000	.85000	813.00	.3412	.2763	.3180	.1672-01	.1354-01	.1558-01	9.510	69.88	634.1
213	.00000	.90000	814.00	.3269	.2653	.3057	.1601-01	.1300-01	.1498-01	9.225	63.63	627.0
213	.00000	.92500	815.00	.2837	.2308	.2662	.1390-01	.1131-01	.1304-01	8.098	64.34	620.3
213	.00000	.95000	816.00	.2830	.2297	.2662	.1387-01	.1125-01	.1304-01	7.985	63.23	627.2
213	.00000	.97500	817.00	.3043	.2463	.2858	.1491-01	.1207-01	.1405-01	8.468	66.79	635.1
213	.00000	1.0150	818.00	.2735	.2229	.2591	.1340-01	.1092-01	.1269-01	7.892	56.60	614.0
213	.00000	1.0300	819.00	.2798	.2281	.2631	.1371-01	.1117-01	.1299-01	8.079	57.95	613.7
213	.00000	1.0450	820.00	.2778	.2257	.2630	.1361-01	.1106-01	.1283-01	7.881	60.26	624.1
213	.00000	1.0600	821.00	.2296	.1868	.2174	.1125-01	.9150-02	.1065-01	6.558	53.09	620.0
213	.00000	.15000	822.00	.5300-02	.4400-02	.5300-02	.2580-03	.2148-03	.2580-03	1.710	1.034	539.0
213	.00000	.20000	823.00	.7900-02	.6500-02	.7900-02	.3852-03	.3205-03	.3852-03	.2550	1.581	541.0
213	.00000	.25000	824.00	.8100-02	.6800-02	.8100-02	.3981-03	.3313-03	.3981-03	.2640	1.593	539.8
213	.00000	.30000	825.00	.1117	.9170-01	.1035	.5473-02	.4491-02	.5069-02	3.347	26.01	591.4
213	.00000	.35000	826.00	.1070	.8770-01	.9910-01	.5244-02	.4295-02	.4853-02	3.172	24.57	598.0
213	.00000	.40000	827.00	.9690-01	.7930-01	.8950-01	.4747-02	.3883-02	.4391-02	2.854	24.71	601.8
213	.00000	.45000	828.00	.3644	.2950	.3357	.1785-01	.1445-01	.1644-01	10.14	72.00	635.0
213	.00000	.50000	829.00	.3529	.2861	.3253	.1729-01	.1402-01	.1594-01	9.886	70.31	631.3
213	.00000	.55000	830.00	.2865	.2326	.2679	.1404-01	.1139-01	.1313-01	8.087	61.76	626.9
213	.00000	.60000	831.00	.1828	.1495	.1938	.8957-02	.7322-02	.8957-02	5.364	38.66	604.1
213	.00000	.65000	832.00	.2469	.2011	.2469	.1210-01	.8851-02	.1210-01	7.091	50.79	616.9
213	.00000	.70000	833.00	.2236	.1824	.2236	.1095-01	.8934-02	.1095-01	6.475	46.49	612.0
213	.00000	.75000	834.00	.1260-01	.1050-01	.2600-01	.6167-03	.5131-03	.6167-03	4.080	21.528	541.4
213	.00000	.80000	835.00	.1425	.1179	.1435	.7031-02	.5776-02	.7031-02	4.326	31.43	587.7
213	.00000	.85000	836.00	.1966	.1624	.1936	.9731-02	.7956-02	.9731-02	5.831	42.04	603.7
213	.00000	.90000	837.00	.1194	.9860-01	.1194	.5861-02	.4830-02	.5861-02	3.698	27.09	571.0
213	.00000	.95000	838.00	.1349	.1109	.1250	.6608-02	.5434-02	.6126-02	4.090	27.91	581.0
213	.00000	1.00000	839.00	.1107	.9070-01	.1034	.5421-02	.4443-02	.5019-02	3.293	23.07	595.5
213	.00000	1.05000	840.00	.1310	.1072	.1212	.6420-02	.5250-02	.5938-02	3.848	25.22	603.6
213	.00000	1.10000	841.00	.2086	.1697	.1936	.1022-01	.8315-02	.9434-02	5.962	44.11	619.7
213	.00000	1.15000	842.00	.3281	.2652	.3035	.1607-01	.1304-01	.1482-01	9.247	63.76	627.7
213	.00000	1.20000	843.00	.2988	.2428	.2736	.1464-01	.1190-01	.1370-01	8.489	60.61	623.2

(RV1312)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
213	32.000	.95000	837.00	.2884	.2347	.2715	.1413-01	.1150-01	.1330-01	8.260	61.16	618.4
213	32.000	.97500	838.00	.2929	.2377	.2752	.1435-01	.1164-01	.1353-01	8.255	63.02	627.6
213	32.000	1.0150	839.00	.3155	.2550	.2857	.1546-01	.1249-01	.1400-01	8.697	67.18	640.4
213	32.000	1.0300	840.00	.2940	.2388	.2659	.1441-01	.1170-01	.1308-01	8.318	62.45	625.6
213	32.000	1.0450	841.00	.2796	.2271	.2539	.1370-01	.1113-01	.1244-01	7.926	58.52	624.4
213	32.000	1.0600	842.00	.2174	.1772	.1977	.1065-01	.8682-02	.9688-02	6.277	50.03	613.8
213	45.000	.92500	969.00	.4010-01	.3330-01	.4910-01	.1964-02	.1630-02	.1964-02	1.281	9.482	550.7
213	45.000	.95000	973.00	.2800-02	.2300-02	.2900-02	.1360-03	.1131-03	.1360-03	.9000-01	.6670	542.9
213	45.000	.97500	978.00	.2000-02	.1700-02	.2000-02	.9946-04	.8272-04	.9946-04	.6600-01	.4880	542.3
213	75.000	.97500	977.00	.5000-03	.4000-03	.5000-03	.2264-04	.1883-04	.2264-04	.1500-01	.1110	542.3
213	85.000	.97500	976.00	.9000-03	.8000-03	.9000-03	.4447-04	.3699-04	.4447-04	.2900-01	.2180	542.4
213	180.00	.10000-01	59.000	.1009	.8380-01	.1009	.4945-02	.4107-02	.4945-02	3.238	23.99	548.2
213	180.00	.25000-01	63.000	.2420-01	.2010-01	.2420-01	.1186-02	.9865-03	.1186-02	.7860	5.656	540.4
213	180.00	.50000-01	61.000	.1280-01	.1060-01	.1230-01	.6264-03	.5214-03	.6264-03	.4160	2.652	539.4
213	180.00	.75000-01	62.000	.1500-01	.1250-01	.1500-01	.7362-03	.6126-03	.7362-03	.4880	3.109	540.7
213	180.00	.10000+00	63.000	.2500-01	.2080-01	.2500-01	.1224-02	.1018-02	.1224-02	.8090	5.304	542.4
213	180.00	.12500	64.000	.2960-01	.2460-01	.2960-01	.1450-02	.1205-02	.1450-02	.9550	6.652	544.0
213	180.00	.15000	65.000	.3430-01	.2850-01	.3430-01	.1683-02	.1399-02	.1683-02	1.107	7.706	545.0
213	180.00	.16000	66.000	.9030-01	.7490-01	.9030-01	.4424-02	.3669-02	.4424-02	2.874	15.93	553.5
213	180.00	.17000	67.000	.1168	.9690-01	.1168	.5724-02	.4746-02	.5724-02	3.712	20.57	554.6
213	180.00	.20000	69.000	.1630-01	.1360-01	.1630-01	.8001-03	.6654-03	.8001-03	.5790	3.270	543.0
213	180.00	.40100	72.000	.6700-02	.5500-02	.6700-02	.3268-03	.2718-03	.3268-03	.2160	1.833	542.6
213	180.00	.50000	73.000	.8400-02	.7000-02	.8400-02	.4135-03	.3439-03	.4135-03	.2730	2.317	543.0
213	180.00	.60100	74.000	.7300-02	.6100-02	.7300-02	.3585-03	.2981-03	.3585-03	.2360	1.943	543.3
213	180.00	.70100	75.000	.4800-02	.4000-02	.4800-02	.2361-03	.1964-03	.2361-03	.1560	1.242	542.3

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1813)

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPDRBK = .0000  
 BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO FSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
246	7.900	.5359	20.00	.0000	180.0	105.6	.1200-01	1273.	94.40	.5320	3761.	.1083-04
247	7.900	.5406	19.99	.0000	180.0	111.2	.1200-01	1274.	94.50	.5380	3764.	.1093-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R	ST FR R =
246	.7600-07	.1785-01	.1795-01	0.0175
247	.7611-07	.1795-01	.1795-01	.5502-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
246	.00000	.00000	1.0000	.9153	.7471	.7643	.1634-01	.1334-01	.1364-01	9.235	50.51	580.2
246	.00000	.50000-02	2.0000	.7503	.6126	.6167	.1339-01	.1084-01	.1119-01	7.585	51.89	579.1
246	.00000	.10000-01	3.0000	.5797	.4751	.5066	.1035-01	.8481-02	.9043-02	5.983	39.92	567.2
246	.00000	.30000-01	5.0000	.2322	.1914	.2187	.4145-02	.3417-02	.3903-02	2.475	13.75	548.3
246	.00000	.40000-01	6.0000	.1831	.1510	.1749	.3268-02	.2696-02	.3123-02	1.959	10.90	545.8
246	.00000	.50000-01	7.0000	.1702	.1403	.1644	.3039-02	.2504-02	.2934-02	1.811	12.19	549.4
246	.00000	.60000-01	8.0000	.1649	.1360	.1604	.2944-02	.2427-02	.2864-02	1.760	11.18	547.7
246	.00000	.70000-01	9.0000	.1375	.1134	.1348	.2455-02	.2024-02	.2406-02	1.466	10.19	548.1
246	.00000	.80000-01	10.000	.1107	.9130-01	.1092	.1796-02	.1630-02	.1949-02	1.185	8.241	546.0
246	.00000	.90000-01	11.000	.1006	.8300-01	.9560-01	.1603-02	.1492-02	.1778-02	1.079	6.862	545.0
246	.00000	.10000+00	12.000	.8980-01	.7410-01	.8920-01	.1603-02	.1323-02	.1593-02	.930	5.799	544.5
246	.00000	.12000	14.000	.7870-01	.6490-01	.7650-01	.1404-02	.1159-02	.1402-02	.8460	4.716	542.8
246	.00000	.14000	15.000	.7340-01	.6060-01	.7350-01	.1311-02	.1082-02	.1311-02	.7900	4.631	543.1
246	.00000	.16000	16.000	.6590-01	.5440-01	.6800-01	.1176-02	.9706-03	.178-02	.7080	4.510	543.1
246	.00000	.18000	18.000	.6680-01	.5510-01	.6700-01	.1192-02	.9842-03	.197-02	.7180	4.445	543.2
246	.00000	.17000	19.000	.6450-01	.5330-01	.6490-01	.1152-02	.9512-03	.1158-02	.6940	4.418	543.2
246	.00000	.18000	20.000	.6730-01	.5550-01	.6770-01	.1201-02	.9916-03	.1208-02	.7230	4.603	543.5
246	.00000	.19000	21.000	.5610-01	.4640-01	.5650-01	.1002-02	.8275-03	.1009-02	.6050	4.854	541.8
246	.00000	.20000	22.000	.6110-01	.5040-01	.6160-01	.1090-02	.9002-03	.1100-02	.6570	4.182	543.1

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AEDC VKF V41B-57A (OH-49B) COLLAT'ON DECK

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(RV1B13)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (°AW)	H(OTO) BTU/R FT2SEC	H(OTO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
245	.00000	.22500	23.000	.5630-01	.4650-01	.5690-01	1.005-02	.8294-03	.1016-02	.6050	3.853	543.1
246	.00000	.25000	801.00	.5420-01	.4480-01	.5490-01	.9682-03	.7293-03	.9804-03	.5830	3.714	543.0
246	.00000	.30000	802.00	.4950-01	.4020-01	.5010-01	.8828-03	.7293-03	.8939-03	.5320	3.387	543.0
246	.00000	.35000	803.00	.4800-01	.3970-01	.4870-01	.8577-03	.7079-03	.8685-03	.5160	3.283	544.0
246	.00000	.40000	804.00	.4700-01	.3940-01	.4830-01	.8516-03	.7030-03	.8624-03	.5130	3.361	543.3
246	.00000	.45000	805.00	.4330-01	.3630-01	.4450-01	.7845-03	.6475-03	.7944-03	.4720	3.184	544.1
246	.00000	.50000	806.00	.3940-01	.3250-01	.3990-01	.7027-03	.5799-03	.7115-03	.4230	2.942	544.0
246	.00000	.55000	807.00	.3590-01	.3040-01	.3730-01	.6579-03	.5425-03	.6662-03	.3950	2.934	544.6
246	.00000	.60000	808.00	.3400-01	.2810-01	.3450-01	.6074-03	.5713-03	.6151-03	.3650	2.711	544.4
246	.00000	.65000	809.00	.3230-01	.2670-01	.3270-01	.5772-03	.4752-03	.5845-03	.3470	2.573	544.9
246	.00000	.70000	810.00	.3120-01	.2580-01	.3130-01	.5577-03	.4602-03	.5650-03	.3350	2.573	544.7
246	.00000	.75000	811.00	.3070-01	.2530-01	.310-01	.5481-03	.4523-03	.5550-03	.3290	2.446	544.3
246	.00000	.80000	812.00	.3070-01	.2480-01	.310-01	.6019-03	.4963-03	.6035-03	.3220	2.689	543.8
246	.00000	.85000	813.00	.2930-01	.2450-01	.3050-01	.5327-03	.4354-03	.5444-03	.3210	2.465	542.8
246	.00000	.90000	814.00	.2730-01	.2270-01	.2850-01	.4968-03	.4103-03	.5091-03	.3030	2.157	541.8
246	.00000	.95000	815.00	.1930-01	.1640-01	.1980-01	.3450-03	.2849-03	.3543-03	.2080	1.721	541.6
246	.00000	.95000	816.00	.1150-01	.9500-02	.1190-01	.2059-03	.1700-03	.2120-03	.1240	1.026	542.0
246	.00000	.95000	817.00	.9100-02	.7500-02	.9000-02	.1615-03	.1334-03	.1658-03	.9700-01	.8030	543.4
246	.00000	.95000	818.00	.4700-02	.3300-02	.4800-02	.8317-04	.6857-04	.8505-04	.5000-01	.3680	547.8
246	.00000	1.0150	819.00	.1750-01	.1450-01	.1820-01	.3132-03	.2582-03	.3242-03	.1860	1.380	550.4
246	.00000	1.0350	820.00	.3940-01	.3240-01	.4090-01	.7031-03	.5787-03	.7278-03	.4160	3.484	553.2
246	.00000	1.0600	821.00	.1860-01	.1550-01	.1820-01	.3353-03	.2771-03	.3353-03	.2030	1.228	538.7
246	.00000	1.5000	822.00	.3050-01	.2520-01	.3050-01	.5452-03	.4507-03	.5452-03	.3310	2.054	538.4
246	.00000	2.0000	823.00	.5030-01	.4150-01	.5190-01	.8902-03	.7110-03	.8902-03	.9390	2.990	537.9
246	.00000	2.5000	824.00	.4730-01	.3900-01	.4730-01	.8458-03	.6959-03	.8458-03	.5050	4.013	546.8
246	.00000	3.0000	825.00	.3230-01	.2660-01	.3270-01	.5758-03	.4749-03	.5831-03	.3450	3.070	546.3
246	.00000	3.5000	826.00	.3730-01	.3080-01	.3780-01	.6652-03	.5495-03	.6745-03	.4000	2.955	545.7
246	.00000	4.0000	827.00	.3440-01	.2840-01	.3480-01	.6138-03	.5054-03	.6213-03	.3590	2.738	544.4
246	.00000	4.5000	828.00	.2760-01	.2280-01	.2830-01	.4924-03	.4066-03	.5046-03	.2970	2.384	542.5
246	.00000	5.0000	829.00	.1810-01	.1500-01	.1810-01	.3236-03	.2673-03	.3236-03	.1950	1.453	541.5
246	.00000	5.5000	830.00	.2660-01	.2190-01	.2660-01	.4744-03	.3917-03	.4744-03	.2850	2.124	542.8
246	.00000	6.0000	831.00	.2450-01	.2030-01	.2450-01	.4383-03	.3617-03	.4383-03	.2640	1.957	544.0
246	.00000	6.5000	832.00	.3100-01	.2550-01	.3100-01	.5535-03	.4575-03	.5535-03	.3360	2.085	538.3
246	.00000	7.0000	833.00	.8600-02	.7300-02	.8600-02	.1573-03	.1300-03	.1573-03	.9500-01	.1100	539.1
246	.00000	7.5000	834.00	.1460-01	.1230-01	.1460-01	.2650-03	.2198-03	.2650-03	.1610	1.199	539.8
246	.00000	8.0000	835.00	.4800-02	.4000-02	.4800-02	.8586-04	.7099-04	.8586-04	.5200-01	.3880	538.4
246	.00000	8.5000	836.00	.7200-01	.5940-01	.7290-01	.1285-02	.1061-02	.1302-02	.7710	5.361	546.0
246	.00000	9.0000	837.00	.6060-01	.5000-01	.6440-01	.1082-02	.8919-03	.1095-02	.6470	4.644	547.0
246	.00000	9.5000	838.00	.5400-01	.4450-01	.5470-01	.9642-03	.7950-03	.9765-03	.5760	4.884	547.6
246	.00000	10.0000	839.00	.5930-01	.5710-01	.7020-01	.1237-02	.1020-02	.1252-02	.7400	5.677	547.0
246	.00000	10.5000	840.00	.3790-01	.3130-01	.3840-01	.6765-03	.5582-03	.6851-03	.4060	2.918	544.9
246	.00000	11.0000	841.00	.2770-01	.2290-01	.2840-01	.4952-03	.4089-03	.5075-03	.2580	2.217	542.8

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AEDC VKF V41B-57A (CH-49B) COLLATION DECK

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CH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B13)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(910) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
245	32.000	95000	837.00	.2550-01	.2190-01	.2730-01	.4128-03	.3903-03	.4888-03	.2650	2.188	543.3
245	32.000	97500	838.00	.1300-01	.1070-01	.1340-01	.2317-03	.1913-03	.2391-03	.1390	1.110	543.5
245	32.000	1.0150	939.00	.1230-01	.1010-01	.1230-01	.2195-03	.1809-03	.2190-03	.1310	1.060	548.0
245	32.000	1.0300	840.00	.3330-01	.2740-01	.3320-01	.5941-03	.4893-03	.5928-03	.3530	2.749	551.2
245	32.000	1.0450	841.00	.6210-01	.4780-01	.5800-01	.1037-02	.8533-03	.1035-02	.6140	4.692	553.5
245	32.000	1.0500	942.00	.6790-01	.5580-01	.6770-01	.1212-02	.9972-03	.1209-02	.7170	5.887	553.7
245	45.000	92500	953.00	.3200-03	.3000-02	.7000-03	.5719-05	.4729-05	.5719-05	.5000-02	.2600-01	537.3
245	45.000	95000	973.00	.6000-03	.1000-02	.2000-03	.2251-05	.2449-05	.2251-05	.6000-02	.1300-01	536.3
245	45.000	97500	977.00	.7200-03	.6000-02	.7000-03	.1277-04	.1057-04	.1277-04	.6000-02	.5800-01	536.1
245	85.000	97500	976.00	.4300-02	.3500-02	.4300-02	.7700-04	.6369-04	.7700-04	.4700-01	.3500	536.4
245	180.00	10000-01	59.000	.2354	.2354	.2354	.5105-02	.4202-02	.5105-02	3.025	22.36	552.9
245	180.00	25000-01	60.000	.9550-01	.7950-01	.9550-01	.1725-02	.1424-02	.1725-02	1.039	7.466	543.3
245	180.00	50000-01	61.000	.4810-01	.3970-01	.4810-01	.8585-03	.7093-03	.8585-03	.5200	3.314	540.1
245	180.00	75000-01	62.000	.2570-01	.2120-01	.2570-01	.4588-03	.3792-03	.4588-03	.2780	1.775	539.1
245	180.00	100000-00	63.000	.1540-01	.1350-01	.1540-01	.2930-03	.2422-03	.2930-03	.1780	1.168	538.5
245	180.00	12500	64.000	.1180-01	.9500-02	.1180-01	.2070-03	.1711-03	.2070-03	.1260	.8770	538.4
245	180.00	15000	65.000	.7400-02	.6100-02	.7400-02	.1314-03	.1036-03	.1314-03	.8000-01	.5530	537.5
245	180.00	16000	65.000	.2170-01	.1790-01	.2170-01	.3670-03	.3200-03	.3670-03	.2350	1.314	537.6
245	180.00	17000	67.000	.5420-01	.4520-01	.5420-01	.9777-03	.8075-03	.9777-03	.5900	3.293	541.5
245	180.00	20000	69.000	.2050-01	.1700-01	.2050-01	.3655-03	.3030-03	.3655-03	.2230	1.382	538.0
245	180.00	40100	72.000	.4430-02	.3700-02	.4430-02	.7856-04	.6522-04	.7856-04	.4800-01	.4050	536.7
245	180.00	50000	73.000	.7500-02	.6200-02	.7500-02	.1338-03	.1107-03	.1338-03	.8100-01	.6940	537.0
245	180.00	60100	74.000	.8400-02	.7000-02	.8400-02	.1503-03	.1273-03	.1503-03	.9100-01	.7540	537.3
245	180.00	70100	75.000	.7800-02	.6400-02	.7800-02	.1384-03	.1145-03	.1384-03	.8400-01	.6740	536.1

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B13)

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPDRK = .0000  
BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	P0 PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
228	7.940	1.003	19.89	.0000	180.0	208.5	.2200-01	1275.	93.70	.9900	3765.	.2009-04
229	7.940	1.020	19.98	.0000	180.0	210.4	.2300-01	1268.	93.20	.9990	3756.	.2037-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR R =
228	.7540-07	.2435-01	0.0175
229	.7502-07	.2444-01	.4028-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H10T0 BTU/ R FT2SEC	H10T0 BTU/ R FT2SEC	H10T0 BTU/ R FT2SEC	H10T0 BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
228	.0000	.0000	1.0000	.8979	.7280	.7450	.2186-01	.1772-01	.1814-01	.1193	64.60	601.2	
228	.0000	.5000-02	2.0000	.7320	.5986	.6129	.1797-01	.1457-01	.1492-01	9.833	66.58	599.8	
228	.0000	.1000-01	3.0000	.5443	.4438	.4742	.1325-01	.1081-01	.1154-01	7.464	49.40	583.8	
228	.0000	.2000-01	4.0000	.2527	.2077	.2324	.6153-02	.5057-02	.5653-02	3.618	20.00	559.1	
228	.0000	.3000-01	5.0000	.2287	.1892	.2154	.5569-02	.4582-02	.5243-02	3.295	18.24	553.4	
228	.0000	.4000-01	6.0000	.1836	.1511	.1754	.4470-02	.3679-02	.4271-02	2.653	14.70	553.6	
228	.0000	.5000-01	7.0000	.1673	.1376	.1616	.4074-02	.3349-02	.3934-02	2.400	16.09	558.0	
228	.0000	.6000-01	8.0000	.1630	.1341	.1586	.3968-02	.3265-02	.3862-02	2.348	14.86	555.3	
228	.0000	.7000-01	9.0000	.1391	.1144	.1354	.3386-02	.2786-02	.3320-02	2.003	13.86	555.7	
228	.0000	.8000-01	10.000	.1073	.8840-01	.1059	.2614-02	.2152-02	.2578-02	1.554	10.77	552.6	
228	.0000	.9000-01	11.000	.9660-01	.8130-01	.9760-01	.2401-02	.1979-02	.2377-02	1.433	9.096	550.1	
228	.0000	.10000*00	12.000	.6930-01	.7330-01	.8840-01	.2166-02	.1785-02	.2153-02	1.293	7.759	550.1	
228	.0000	.12000	14.000	.7610-01	.6280-01	.7600-01	.1953-02	.1528-02	.1851-02	1.111	6.177	547.5	
228	.0000	.13000	15.000	.6900-01	.5630-01	.6910-01	.1681-02	.1386-02	.1682-02	1.007	5.894	547.8	
228	.0000	.14000	16.000	.6400-01	.5280-01	.6410-01	.1558-02	.1285-02	.1632-02	.9340	5.932	547.8	
228	.0000	.16000	18.000	.6670-01	.5500-01	.6700-01	.1625-02	.1340-02	.1632-02	.9730	6.011	548.0	
228	.0000	.17000	19.000	.6310-01	.5210-01	.6350-01	.1537-02	.1267-02	.1546-02	.9210	5.848	548.1	
228	.0000	.18000	20.000	.6070-01	.5010-01	.6110-01	.1479-02	.1219-02	.1488-02	.8850	5.623	548.3	
228	.0000	.19000	21.000	.6440-01	.5320-01	.6490-01	.1559-02	.1294-02	.1581-02	.9420	5.930	546.6	

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1813)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	OTMDT DEG. R /SEC	TH DEG. R
228	.00000	.20000	22.000	.5730-01	.4780-01	.5840-01	.1410-02	.1163-02	.1423-02	.8450	5.366	548.0
228	.00000	.22500	23.000	.5280-01	.4360-01	.5340-01	.1286-02	.1061-02	.1301-02	.8450	4.901	547.3
228	.00000	.25000	801.00	.5140-01	.4240-01	.5200-01	.1251-02	.1032-02	.1267-02	.7500	4.769	547.1
228	.00000	.30000	802.00	.4550-01	.3750-01	.4610-01	.1107-02	.9123-02	.1121-02	.6640	4.218	547.4
228	.00000	.35000	803.00	.5000-01	.4120-01	.5060-01	.1217-02	.1003-02	.1233-02	.7280	4.619	549.2
228	.00000	.40000	804.00	.4650-01	.3830-01	.4710-01	.1132-02	.9332-03	.1147-02	.6770	4.421	549.5
228	.00000	.45000	805.00	.4030-01	.3320-01	.4030-01	.9823-03	.8093-03	.9952-03	.5860	3.941	550.8
228	.00000	.50000	806.00	.3780-01	.3110-01	.3830-01	.9193-03	.7572-03	.9315-03	.5470	3.794	551.9
228	.00000	.55000	807.00	.3650-01	.3000-01	.3690-01	.8874-03	.7306-03	.8992-03	.5270	3.897	553.1
228	.00000	.60000	808.00	.3320-01	.2730-01	.3360-01	.8072-03	.6646-03	.8179-03	.5470	3.543	553.2
228	.00000	.65000	809.00	.3090-01	.2550-01	.3130-01	.7528-03	.5197-03	.7628-03	.4460	3.299	554.0
228	.00000	.70000	810.00	.2860-01	.2440-01	.3000-01	.7211-03	.5934-03	.7306-03	.4270	3.266	554.3
228	.00000	.75000	811.00	.2690-01	.2220-01	.2730-01	.6559-03	.5399-03	.6646-03	.3890	2.873	554.2
228	.00000	.80000	812.00	.3120-01	.2570-01	.3170-01	.7607-03	.6262-03	.7708-03	.4510	3.334	553.9
228	.00000	.85000	813.00	.2700-01	.2220-01	.2760-01	.6572-03	.5411-03	.6727-03	.3910	2.987	552.8
228	.00000	.90000	814.00	.2650-01	.2180-01	.2710-01	.6442-03	.5307-03	.6606-03	.3840	2.750	551.0
228	.00000	.92500	815.00	.1860-01	.1530-01	.1910-01	.4528-03	.3732-03	.4654-03	.2710	2.226	549.6
228	.00000	.95000	816.00	.8900-02	.7400-02	.9200-02	.2175-03	.1794-03	.2241-03	.1300	1.073	548.0
228	.00000	.97500	817.00	.9000-02	.7500-02	.9300-02	.2200-03	.1815-03	.2272-03	.1320	1.086	550.5
228	.00000	1.0150	818.00	.4100-02	.3300-02	.4200-02	.9881-04	.8141-04	.1023-03	.9900-01	4.360	552.8
228	.00000	1.0300	819.00	.2680-01	.2210-01	.2770-01	.6521-03	.5369-03	.6752-03	.3880	2.865	556.9
228	.00000	1.0600	821.00	.5450-01	.4480-01	.5640-01	.1326-02	.1091-02	.1374-02	.7830	6.538	543.2
228	.00000	1.5000	89.000	.1840-01	.1520-01	.1840-01	.4474-03	.3694-03	.4474-03	.4820	2.985	543.0
228	.00000	20.000	91.000	.3280-01	.2710-01	.3280-01	.7979-03	.6589-03	.7979-03	.4820	2.985	541.6
228	.00000	50.000	90.000	.1110-01	.9200-02	.1110-01	.2711-03	.2239-03	.2711-03	.1640	5.716	552.5
228	.00000	823.00	823.00	.4980-01	.4100-01	.5050-01	.1213-02	.5393-03	.1230-02	.7210	5.177	554.7
228	.00000	824.00	824.00	.4540-01	.3730-01	.4600-01	.1104-02	.9087-03	.1119-02	.6540	3.750	555.2
228	.00000	825.00	825.00	.2940-01	.2420-01	.2980-01	.7151-03	.5884-03	.7246-03	.4230	3.922	555.2
228	.00000	826.00	826.00	.3690-01	.3030-01	.3740-01	.8974-03	.7384-03	.9093-03	.5310	3.588	554.3
228	.00000	827.00	827.00	.3370-01	.2770-01	.3410-01	.6745-03	.6745-03	.8304-03	.4860	3.588	551.6
228	.00000	828.00	828.00	.2570-01	.2120-01	.2640-01	.6268-03	.5163-03	.6428-03	.3730	2.958	551.6
228	.00000	971.00	971.00	.2470-01	.2030-01	.2470-01	.5010-03	.4951-03	.6010-03	.3580	2.648	552.2
228	.00000	975.00	975.00	.3610-01	.2970-01	.3510-01	.8787-03	.7236-03	.8787-03	.5230	3.866	552.2
228	.00000	980.00	980.00	.3350-01	.2760-01	.3350-01	.8165-03	.6728-03	.8165-03	.4870	3.606	550.4
228	.00000	93.000	93.000	.3510-01	.2900-01	.3510-01	.7065-03	.7065-03	.8557-03	.5170	3.197	543.5
228	.00000	970.00	970.00	.1470-01	.1210-01	.1470-01	.3578-03	.2351-03	.3578-03	.2140	1.590	547.7
228	.00000	974.00	974.00	.2220-01	.1930-01	.2220-01	.5404-03	.4457-03	.5404-03	.3240	2.403	547.3
228	.00000	979.00	979.00	.8300-02	.7300-02	.8900-02	.2155-03	.1789-03	.2165-03	.1310	.9700	543.8
228	.00000	83107.10	83107.10	.7050-01	.5800-01	.7140-01	.1715-02	.1412-02	.1738-02	1.019	7.062	553.0
228	.00000	632.00	632.00	.5930-01	.4920-01	.6070-01	.1457-02	.1199-02	.1477-02	.8620	6.157	555.7
228	.00000	833.00	833.00	.5540-01	.4550-01	.5610-01	.1346-02	.1109-02	.1366-02	.7960	5.342	556.5
228	.00000	834.00	834.00	.5350-01	.4400-01	.5420-01	.1302-02	.1071-02	.1319-02	.7700	5.877	555.9
228	.00000	835.00	835.00	.3690-01	.3040-01	.3740-01	.8992-03	.7401-03	.9112-03	.5330	3.811	554.3

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1B12)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(970) BTU/R FT2SEC	H(101) BTU/R FT2SEC	H(TAN) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
228	32.000	.90000	835.00	.2690-01	.2210-01	.2750-01	.6527-03	.5377-03	.6694-03	.3890	2.876	551.6
228	32.000	.95000	837.00	.2650-01	.2180-01	.2730-01	.6441-03	.5307-03	.6636-03	.3840	2.944	550.1
228	32.000	.97500	838.00	.1130-01	.9400-02	.1170-01	.2763-03	.2278-03	.2853-03	.1660	1.315	547.7
228	32.000	1.0150	839.00	.8100-02	.6500-02	.8000-02	.1961-03	.1415-03	.1958-03	.1170	.9420	552.0
228	32.000	1.0300	840.00	.3390-01	.2790-01	.3390-01	.8257-03	.6795-03	.8243-03	.4630	3.804	554.6
228	32.000	1.0450	841.00	.6420-01	.5880-01	.6410-01	.1563-02	.1278-02	.1560-02	.9220	7.034	557.1
228	32.000	1.0600	842.00	.6382-01	.5550-01	.6370-01	.1553-02	.1278-02	.1551-02	.9160	7.510	557.4
228	45.000	.95500	909.00	.6000-03	.5000-03	.6000-03	.1423-04	.1175-04	.1423-04	.9000-02	.6400-01	543.2
228	45.000	.95000	973.00	.2000-03	.2000-03	.2000-03	.4572-05	.3775-05	.4572-05	.3000-02	.2100-01	543.1
228	45.000	.97500	973.00	.8000-03	.6000-03	.8000-03	.1876-04	.1549-04	.1876-04	.1100-01	.8400-01	542.8
228	75.000	.97500	973.00	.6000-03	.6000-03	.6000-03	.1549-04	.1279-04	.1549-04	.9000-02	.7000-01	543.0
228	85.000	.97500	973.00	.4500-02	.3700-02	.4500-02	.1097-03	.9053-04	.1097-03	.6600-01	.4910	543.7
228	180.00	1.0000	63.000	.2800	.2322	.2506	.6631-02	.5605-02	.6831-02	3.978	29.24	564.7
228	180.00	1.0000	63.000	.9470-01	.7300-01	.9470-01	.2305-02	.1900-02	.2305-02	1.377	9.858	549.8
228	180.00	1.0000	61.000	.4450-01	.3570-01	.4450-01	.1084-02	.8945-03	.1084-02	.6520	4.101	545.1
228	180.00	1.0000	62.000	.2390-01	.1370-01	.2390-01	.5823-03	.4808-03	.5823-03	.3520	2.239	543.2
228	180.00	1.0000	63.000	.1470-01	.1210-01	.1470-01	.3563-03	.2948-03	.3563-03	.2160	1.415	542.5
228	180.00	1.0000	64.000	.1000-01	.8200-02	.1000-01	.2434-03	.2010-03	.2434-03	.1470	1.026	542.2
228	180.00	1.0000	65.000	.6100-02	.5000-02	.6100-02	.1478-03	.1221-03	.1478-03	.9000-01	.6240	541.3
228	180.00	1.0000	66.000	.2090-01	.1720-01	.2090-01	.5084-03	.4199-03	.5084-03	.3080	1.715	541.9
228	180.00	1.0000	67.000	.6370-01	.5200-01	.6370-01	.1551-02	.1279-02	.1551-02	.9310	5.175	547.1
228	180.00	1.0000	68.000	.1290-01	.1840-01	.1290-01	.4844-03	.4001-03	.4844-03	.2930	1.814	542.3
228	180.00	1.0000	72.000	.1500-02	.4600-02	.1500-02	.1348-03	.1113-03	.1348-03	.8100-01	.6910	543.1
228	180.00	1.0000	73.000	.8300-02	.7400-02	.8300-02	.2178-03	.1798-03	.2178-03	.1310	1.114	544.2
228	180.00	1.0000	74.000	.1020-01	.8400-02	.1020-01	.2473-03	.2041-03	.2473-03	.1490	1.222	545.0
228	180.00	1.0000	75.000	.8100-02	.6700-02	.8100-02	.1973-03	.1629-03	.1973-03	.1190	.9460	544.6



FUSELAGE  
PARAMETRIC DATA  
ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = 15.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*  
RHO SLUGS  
/FT3  
.7624-04  
.7629-04

RUN NUMBER	MACH	RV/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO FSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
215	8.000	3.767	15.95	.0000	180.0	861.6	.8800-01	1340.	97.10	3.954	3863.	.7624-04
216	8.000	3.772	19.96	.0000	180.0	860.7	.8800-01	1338.	97.00	3.949	3860.	.7629-04

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DT/DOT DEG. R /SEC	TH DEG. R
215	.00000	.00000	1.0000	.9142	.7325	.7506	.4488-01	.3596-01	.3685-01	24.24	127.2	666.0
215	.00000	.50000-02	2.0000	.7495	.6011	.6161	.3680-01	.2951-01	.3024-01	19.97	131.1	663.5
215	.00000	.10000-01	3.0000	.5608	.4550	.4867	.2753-01	.2234-01	.2389-01	15.86	102.6	630.0
215	.00000	.20000-01	4.0000	.3655	.2524	.2821	.1505-01	.1239-01	.1385-01	9.410	51.45	580.9
215	.00000	.30000-01	5.0000	.2338	.1931	.2203	.1148-01	.0480-02	.1082-01	7.305	40.16	569.7
215	.00000	.40000-01	6.0000	.1857	.1537	.1776	.0117-02	.7544-02	.8721-02	5.863	32.34	563.1
215	.00000	.50000-01	7.0000	.1652	.1364	.1596	.8110-02	.6696-02	.7835-02	5.143	34.26	571.8
215	.00000	.60000-01	8.0000	.1616	.1336	.1573	.7934-02	.6559-02	.7724-02	5.073	31.92	566.8
215	.00000	.70000-01	9.0000	.1344	.1111	.1318	.6599-02	.5453-02	.6471-02	4.211	28.96	568.1
215	.00000	.80000-01	10.000	.1047	.8670-01	.1033	.5142-02	.4257-02	.5072-02	3.314	22.87	561.6
215	.00000	.90000-01	11.000	.9750-01	.8030-01	.9650-01	.4768-02	.3968-02	.4741-02	3.108	19.65	557.1
215	.00000	.10000+00	12.000	.8710-01	.7220-01	.8660-01	.3545-02	.3545-02	.4250-02	2.780	16.64	553.0
215	.00000	.12000	14.000	.7500-01	.6230-01	.7500-01	.3633-02	.3055-02	.3680-02	2.406	13.34	552.9
215	.00000	.13000	15.000	.6310-01	.5730-01	.6920-01	.3333-02	.2815-02	.3336-02	2.215	12.92	553.5
215	.00000	.14000	16.000	.6320-01	.5240-01	.6330-01	.3102-02	.2573-02	.3108-02	2.024	12.82	553.9
215	.00000	.16000	18.000	.6490-01	.5390-01	.6520-01	.3188-02	.2644-02	.3200-02	2.076	12.77	553.0
215	.00000	.17000	19.000	.6260-01	.5190-01	.6290-01	.3072-02	.2547-02	.3088-02	1.998	12.64	555.8
215	.00000	.18000	20.000	.6230-01	.5170-01	.6270-01	.3050-02	.2537-02	.3078-02	1.989	12.58	556.2
215	.00000	.19000	21.000	.5950-01	.4940-01	.6000-01	.2924-02	.2426-02	.2945-02	1.907	12.08	554.0

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1813)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAK)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AM) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
215	.00000	.20000	22.000	.5620-01	.4650-01	.5660-01	.2757-02	.2286-02	.2780-02	1.794	11.35	555.7
215	.00000	.22500	23.000	.5460-01	.4530-01	.5520-01	.2678-02	.2221-02	.2708-02	1.745	11.04	554.8
215	.00000	.25000	801.00	.5040-01	.4180-01	.5100-01	.2473-02	.2051-02	.2504-02	1.611	10.20	555.0
215	.00000	.30000	802.00	.4560-01	.3780-01	.4620-01	.2239-02	.1855-02	.2267-02	1.457	9.218	555.6
215	.00000	.35000	803.00	.4560-01	.3780-01	.4620-01	.2239-02	.1855-02	.2267-02	1.449	9.157	558.8
215	.00000	.40000	804.00	.4570-01	.3780-01	.4630-01	.2242-02	.1858-02	.2271-02	1.450	9.427	559.6
215	.00000	.45000	805.00	.4050-01	.3350-01	.4100-01	.1986-02	.1644-02	.2011-02	1.281	8.575	561.1
215	.00000	.50000	806.00	.3630-01	.3000-01	.3670-01	.1781-02	.1474-02	.1803-02	1.146	7.900	563.0
215	.00000	.55000	807.00	.3420-01	.2830-01	.3460-01	.1680-02	.1389-02	.1701-02	1.076	7.904	565.6
215	.00000	.60000	808.00	.3060-01	.2530-01	.3100-01	.1502-02	.1242-02	.1521-02	.9820	7.089	565.7
215	.00000	.65000	809.00	.2770-01	.2290-01	.2810-01	.1362-02	.1126-02	.1390-02	.8700	6.387	567.4
215	.00000	.70000	810.00	.2720-01	.2250-01	.2760-01	.1337-02	.1105-02	.1354-02	.8520	6.466	568.7
215	.00000	.75000	811.00	.3230-01	.2670-01	.3280-01	.1588-02	.1312-02	.1608-02	1.011	7.409	569.8
215	.00000	.80000	812.00	.4820-01	.3650-01	.4470-01	.2139-02	.1791-02	.2196-02	1.379	10.11	570.6
215	.00000	.85000	813.00	.4830-01	.3650-01	.4470-01	.2139-02	.1791-02	.2196-02	1.379	10.11	570.6
215	.00000	.90000	814.00	.5190-01	.4230-01	.5320-01	.2550-02	.2108-02	.2613-02	1.630	11.58	566.9
215	.00000	.92500	815.00	.4450-01	.3680-01	.4570-01	.2185-02	.1808-02	.2244-02	1.402	11.45	564.8
215	.00000	.95000	816.00	.4460-01	.3690-01	.4590-01	.2189-02	.1810-02	.2253-02	1.403	11.46	565.1
215	.00000	.97500	817.00	.4420-01	.3650-01	.4560-01	.2169-02	.1793-02	.2238-02	1.389	11.34	565.7
215	.00000	1.0150	818.00	.1321	.1085	.1368	.6485-02	.5326-02	.6716-02	3.997	29.01	589.8
215	.00000	1.0300	819.00	.2072	.1697	.2148	.1017-01	.8331-02	.1054-01	6.165	44.52	600.2
215	.00000	1.0450	820.00	.2336	.1953	.2486	.1176-01	.9590-02	.1220-01	6.956	53.43	614.8
215	.00000	1.0600	821.00	.2133	.1738	.2213	.1047-01	.8534-02	.1086-01	6.180	50.13	616.1
215	.00000	1.0800	89.000	.1710-01	.1420-01	.1710-01	.8331-03	.6982-03	.8391-03	.5570	3.360	541.9
215	.00000	1.1000	90.000	.3760-01	.3130-01	.3760-01	.1847-02	.1535-02	.1947-02	1.219	7.538	545.9
215	.00000	1.1200	90.000	.1020-01	.8500-02	.1020-01	.5016-03	.4175-03	.5016-03	3.340	2.015	540.3
215	.00000	1.1400	823.00	.4590-01	.3690-01	.4750-01	.2304-02	.1516-02	.2334-02	1.475	11.61	569.4
215	.00000	1.1600	824.00	.4610-01	.3810-01	.4670-01	.2265-02	.1871-02	.2293-02	1.442	11.33	569.4
215	.00000	1.1800	825.00	.2930-01	.2420-01	.2970-01	.1438-02	.1188-02	.1456-02	.9150	8.050	569.8
215	.00000	1.2000	826.00	.3750-01	.3100-01	.3800-01	.1843-02	.1522-02	.1866-02	1.171	9.535	570.8
215	.00000	1.2200	827.00	.4170-01	.3450-01	.4230-01	.2048-02	.1691-02	.2074-02	1.301	9.213	574.1
215	.00000	1.2400	828.00	.3730-01	.3080-01	.3820-01	.1831-02	.1514-02	.1876-02	1.171	13.61	573.2
215	.00000	1.2600	975.00	.6000-01	.4950-01	.6000-01	.2943-02	.2428-02	.2943-02	1.860	15.27	569.1
215	.00000	1.2800	976.00	.6260-01	.5170-01	.6260-01	.3073-02	.2539-02	.3073-02	1.958	14.36	549.6
215	.00000	1.3000	977.00	.5680-01	.4720-01	.5680-01	.2790-02	.2317-02	.2790-02	1.832	11.31	565.5
215	.00000	1.3200	978.00	.5070-01	.4190-01	.5070-01	.2487-02	.2056-02	.2487-02	1.593	11.70	569.9
215	.00000	1.3400	979.00	.5060-01	.4180-01	.5060-01	.2487-02	.2056-02	.2487-02	1.593	11.70	569.9
215	.00000	1.3600	979.00	.5060-01	.4180-01	.5060-01	.2487-02	.2056-02	.2487-02	1.593	11.70	569.9
215	.00000	1.3800	979.00	.5060-01	.4180-01	.5060-01	.2487-02	.2056-02	.2487-02	1.593	11.70	569.9
215	.00000	1.4000	83100+10	.7140-01	.5900-01	.7230-01	.3504-02	.2897-02	.3548-02	2.241	15.42	566.6
215	.00000	1.4200	832.00	.5920-01	.4890-01	.5920-01	.2908-02	.2401-02	.2945-02	1.847	13.10	571.0
215	.00000	1.4400	833.00	.5040-01	.4160-01	.5100-01	.2472-02	.2040-02	.2504-02	1.566	10.42	572.5
215	.00000	1.4600	834.00	.4660-01	.3840-01	.4720-01	.2285-02	.1886-02	.2315-02	1.447	10.96	572.9

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(RV1B13)

OH-49B (AEDC V41B-57A) ORBITTER FUSELAGE

PUR NUMBER	THETA	X/L	T/C NO	W/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(OTO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TM DEG. R
215	32.000	.80000	835.00	.3640-01	.3000-01	.3680-01	.1785-02	.1808-02	1.135	8.051	570.3
215	32.000	.90000	836.00	.3200-01	.2650-01	.3280-01	.1572-02	.1611-02	1.006	7.392	565.8
215	32.000	.95000	837.00	.3660-01	.3190-01	.3370-01	.1895-02	.1950-02	1.216	9.244	564.5
215	32.000	.97500	838.00	.3310-01	.2740-01	.3420-01	.1625-02	.1677-02	1.046	8.242	562.8
215	32.000	1.0150	839.00	.9220-01	.7570-01	.9200-01	.4526-02	.4517-02	2.777	21.96	592.7
215	32.000	1.0330	840.00	.2173	.1773	.2169	.1067-01	.1065-01	6.339	47.90	612.0
215	32.000	1.0450	841.00	.2932	.2381	.2926	.1439-01	.1435-01	8.331	61.41	627.4
215	32.000	1.0500	842.00	.2474	.2013	.2468	.1214-01	.1212-01	7.105	56.43	621.1
215	45.000	.92500	969.00	.1020-01	.8500-02	.1020-01	.5001-03	.5001-03	.3300	2.447	546.5
215	45.000	.95000	973.00	.2900-02	.2400-02	.2900-02	.1437-03	.1437-03	.9500-01	.7040	545.8
215	45.000	.97500	978.00	.5300-02	.4400-02	.5300-02	.2598-03	.2599-03	.1720	1.273	546.2
215	75.000	.97500	977.00	.4700-02	.3900-02	.4700-02	.212-03	.2312-03	.1530	1.132	546.0
215	85.000	.97500	976.00	.7100-02	.5900-02	.7100-02	.3464-03	.3464-03	.2297	1.697	546.0
215	180.00	.10000-01	59.000	.2902	.2302	.2802	.1375-01	.1375-01	8.497	61.72	588.4
215	180.00	.25000-01	60.000	.9030-01	.7490-01	.9030-01	.4432-02	.4432-02	2.891	20.67	554.0
215	180.00	.50000-01	61.000	.4150-01	.3450-01	.4150-01	.2038-02	.2038-02	1.347	8.566	545.4
215	180.00	.75000-01	62.000	.2010-01	.1680-01	.2010-01	.9888-03	.9888-03	.6570	4.185	542.0
215	180.00	.10000+00	63.000	.1240-01	.1030-01	.1240-01	.6082-03	.6082-03	.4050	2.655	541.1
215	180.00	.15000	54.000	.7300-02	.6100-02	.7300-02	.3603-03	.3603-03	.2400	1.673	540.6
215	180.00	.15000	65.000	.6700-02	.5600-02	.6700-02	.3300-03	.3300-03	.2200	1.532	540.4
215	180.00	.16000	66.000	.2450-01	.2030-01	.2450-01	.1201-02	.1201-02	.7940	4.421	545.1
215	180.00	.17000	67.000	.6410-01	.5320-01	.6410-01	.3147-02	.3147-02	2.054	11.39	553.5
215	180.00	.20000	69.000	.1700-01	.1410-01	.1700-01	.8335-03	.8335-03	.5530	3.423	543.0
215	180.00	.40100	72.000	.1400-01	.1170-01	.1400-01	.6993-03	.6993-03	.4540	3.843	546.8
215	180.00	.50000	73.000	.1430-01	.1180-01	.1430-01	.7001-03	.7001-03	.4610	3.902	547.9
215	180.00	.60100	74.000	.1420-01	.1180-01	.1420-01	.6950-03	.6950-03	.4570	3.746	548.2
215	180.00	.70100	75.000	.8000-02	.6600-02	.8000-02	.3925-03	.3925-03	.2590	2.059	545.9

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B14)

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
BOFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
248	7.900	.5409	29.99	.0000	180.0	111.0	.1200-01	1276.	94.60	.5390	3765.	.1094-04
249	7.900	.5377	29.99	.0000	180.0	110.3	.1200-01	1275.	94.60	.5360	3765.	.1088-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
248	.7617-07		0.0175
249	.7616-07		.5500-01 .5517-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO BTU/ R FT <sup>2</sup> SEC	H1TO BTU/ R FT <sup>2</sup> SEC	H1TAW BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TW DEG. R
248	.00000	.00000	1.0000	.7721	.6327	.6346	.1388-01	.1137-01	.1194-01	8.038	44.21	568.7
248	.00300	.50000-02	2.0000	.7553	.6182	.6218	.1357-01	.1111-01	.1117-01	7.812	53.62	572.5
248	.00000	.10000-01	3.0000	.6217	.5102	.5273	.1177-01	.9169-02	.9477-02	6.519	43.56	564.5
248	.00000	.30000-01	5.0000	.2981	.2439	.2693	.1358-02	.4419-02	.4840-02	3.215	17.87	547.8
248	.00000	.40000-01	6.0000	.2360	.1947	.2161	.4242-02	.3500-02	.3884-02	2.550	14.18	547.0
248	.00000	.50000-01	7.0000	.2309	.1903	.2135	.4150-02	.3420-02	.3835-02	2.480	16.69	550.4
248	.00000	.60000-01	8.0000	.2283	.1892	.2126	.4103-02	.3382-02	.3821-02	2.455	15.59	549.6
248	.00000	.70000-01	9.0000	.1931	.1591	.1811	.3471-02	.2850-02	.3256-02	2.074	14.39	550.4
248	.00000	.80000-01	10.000	.1594	.1314	.1504	.2864-02	.2362-02	.2702-02	1.718	11.94	548.1
248	.00000	.90000-01	11.000	.1501	.1238	.1422	.2697-02	.2225-02	.2555-02	1.624	10.33	545.8
248	.00000	10000+00	12.000	.1332	.1099	.1267	.2391-02	.1976-02	.2277-02	1.443	8.681	545.3
248	.00000	.12000	14.000	.1235	.1020	.1181	.2220-02	.1833-02	.2123-02	1.341	7.471	543.3
248	.00000	.13000	15.000	.1154	.9530-01	.1105	.2074-02	.1712-02	.1986-02	1.252	7.340	544.2
248	.00000	.14000	16.000	.1051	.8530-01	.1008	.839-02	.1559-02	.1812-02	1.140	7.256	544.3
248	.00000	.15000	18.000	.1052	.8770-01	.1021	.1903-02	.1576-02	.1835-02	1.152	7.126	544.6
248	.00000	.16000	19.000	.1057	.8720-01	.1017	.1900-02	.1568-02	.1828-02	1.145	7.288	545.0
248	.00000	.18000	20.000	.1062	.8760-01	.1023	.1908-02	.1575-02	.1838-02	1.151	7.322	544.9
248	.00000	.19000	21.000	.1028	.8450-01	.9920-01	.1848-02	.1526-02	.1783-02	1.119	7.126	542.6
248	.00000	.20000	22.000	.9920-01	.8190-01	.9580-01	.1783-02	.1472-02	.1723-02	1.076	6.848	544.5

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## AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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## OH-49B (AEDC V41B-57A) ORBITTER FUSELAGE

(RV1B14)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(19TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
248	.00000	.22500	23.000	.9380-01	.7750-01	.9090-01	.1686-02	.1392-02	.1633-02	1.019	6.486	543.8
248	.00000	.25000	801.00	.9020-01	.7450-01	.8750-01	.1621-02	.1338-02	.1573-02	.9790	6.235	543.7
248	.00000	.32000	822.00	.8320-01	.6870-01	.8070-01	.1496-02	.1235-02	.1451-02	.9040	5.751	543.9
248	.00000	.35000	803.00	.8290-01	.6840-01	.8050-01	.1490-02	.1230-02	.1446-02	.8990	5.717	545.0
248	.00000	.40000	804.00	.8310-01	.6950-01	.8060-01	.1494-02	.1233-02	.1449-02	.9010	5.900	544.9
248	.00000	.45000	805.00	.7720-01	.6360-01	.7470-01	.1384-02	.1142-02	.1343-02	.8340	5.624	545.6
248	.00000	.50000	806.00	.7170-01	.5910-01	.6930-01	.1288-02	.1053-02	.1250-02	.7760	5.396	545.8
248	.00000	.55000	807.00	.6770-01	.5580-01	.6570-01	.1217-02	.1004-02	.1180-02	.7310	5.422	547.0
248	.00000	.60000	808.00	.6320-01	.5200-01	.6110-01	.1133-02	.9344-03	.1099-02	.6810	5.051	546.7
248	.00000	.65000	809.00	.5930-01	.4890-01	.5730-01	.1066-02	.8733-03	.1034-02	.6400	4.740	547.3
248	.00000	.70000	810.00	.5360-01	.4910-01	.5780-01	.1071-02	.8532-03	.1039-02	.6430	4.931	547.5
248	.00000	.75000	811.00	.5750-01	.4740-01	.5580-01	.1033-02	.8522-03	.1002-02	.6210	4.601	547.3
248	.00000	.80000	812.00	.5870-01	.4840-01	.5690-01	.1054-02	.8693-03	.1023-02	.6340	4.702	546.7
248	.00000	.85000	813.00	.5540-01	.4570-01	.5430-01	.9956-03	.8216-03	.9765-03	.6000	4.602	545.8
248	.00000	.90000	814.00	.5070-01	.4160-01	.4980-01	.9110-03	.7520-03	.8935-03	.5500	3.951	544.4
248	.00000	.92500	815.00	.3620-01	.2930-01	.3560-01	.6499-03	.5358-03	.6405-03	.3930	3.248	542.7
248	.00000	.95000	816.00	.1440-01	.1190-01	.1420-01	.2581-03	.2132-03	.2550-03	.1570	1.294	541.3
248	.00000	.97500	817.00	.1870-01	.1550-01	.1850-01	.3353-03	.2778-03	.3332-03	.2040	1.682	542.3
248	.00000	1.0150	818.00	.1280-01	.1060-01	.1280-01	.2308-03	.1904-03	.2294-03	.1390	1.030	546.4
248	.00000	1.0300	819.00	.6660-01	.5490-01	.6620-01	.1197-02	.9568-03	.1183-02	.7170	5.315	548.6
248	.00000	1.0600	821.00	.1347	.1110	.1339	.2421-02	.1934-02	.2406-02	1.442	12.07	552.6
248	.00000	.15000	89.000	.1040-01	.8600-02	.1040-01	.1878-03	.1554-03	.1878-03	.1150	.6940	536.5
248	.00000	.20000	91.000	.1270-01	.1050-01	.1270-01	.2279-03	.1936-03	.2279-03	.1390	.8570	536.1
248	.00000	.50000-01	90.000	.5800-02	.4800-02	.5800-02	.1036-03	.8373-04	.1036-03	.6300-01	.3840	534.8
248	.00000	.40000	823.00	.8350-01	.6890-01	.8100-01	.1501-02	.1238-02	.1455-02	.9000	7.149	548.1
248	.00000	.50000	824.00	.7750-01	.6330-01	.7520-01	.1393-02	.1148-02	.1351-02	.8340	6.618	549.2
248	.00000	.60000	825.00	.5380-01	.4430-01	.5220-01	.9666-03	.7939-03	.9377-03	.5790	5.147	549.0
248	.00000	.70000	826.00	.5940-01	.4900-01	.5670-01	.1068-02	.8801-03	.1036-02	.6390	4.732	549.5
248	.00000	.80000	827.00	.5850-01	.4820-01	.5670-01	.1051-02	.8557-03	.1019-02	.6310	4.681	547.1
248	.00000	.90000	828.00	.4420-01	.3650-01	.4350-01	.7952-03	.6564-03	.7818-03	.4800	3.816	544.7
248	.00000	.92500	971.00	.3900-01	.3220-01	.3930-01	.7010-03	.5763-03	.7010-03	.4240	3.146	543.7
248	.00000	.95000	975.00	.5640-01	.4660-01	.5640-01	.1014-02	.8372-03	.1014-02	.6130	4.549	543.9
248	.00000	.97500	980.00	.4530-01	.3740-01	.4530-01	.8135-03	.6720-03	.8135-03	.4930	3.663	542.2
248	.00000	.20000	93.000	.9400-02	.7800-02	.9400-02	.1656-03	.1404-03	.1656-03	.1010	.6460	535.7
248	.00000	.30000	970.00	.2750-01	.2270-01	.2750-01	.4935-03	.4079-03	.4935-03	.3000	2.233	540.0
248	.00000	.40000	974.00	.3590-01	.2970-01	.3590-01	.6450-03	.5332-03	.6450-03	.3920	2.921	539.6
248	.00000	.50000	.83100-10	.1069	.8820-01	.1037	.1921-02	.1595-02	.1854-02	1.154	8.022	547.3
248	.00000	.60000	832.00	.8620-01	.7350-01	.8650-01	.1603-02	.1322-02	.1555-02	.9600	6.879	549.4
248	.00000	.70000	833.00	.8030-01	.6620-01	.7790-01	.1443-02	.1199-02	.1452-02	.8630	5.808	550.0
248	.00000	.80000	834.00	.8030-01	.6620-01	.7790-01	.1212-02	.9990-03	.1176-02	5.539	5.539	551.2
248	.00000	.90000	835.00	.5410-01	.4460-01	.5250-01	.9727-03	.8025-03	.9437-03	.5850	4.196	546.9
248	.00000	.95000	836.00	.4570-01	.3770-01	.4490-01	.8211-03	.6779-03	.8072-03	.4960	3.681	544.2
248	.00000	.95000	837.00	.4020-01	.3320-01	.3970-01	.7223-03	.5966-03	.7138-03	.4370	3.360	542.9

(RV1814)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
248	32.000	.97500	838.00	.2800-02	.2300-02	.2800-02	.4998-04	.4132-04	.4952-04	.3000-01	.2430	539.5
248	32.000	1.0150	839.00	.2080-01	.1720-01	.1990-01	.3747-03	.3091-03	.3578-03	.2250	1.821	547.1
248	32.000	1.0300	840.00	.7950-01	.6550-01	.7590-01	.1429-02	.1177-02	.1364-02	.8540	6.651	550.5
248	32.000	1.0450	841.00	.1160	.9560-01	.1108	.2086-02	.1718-02	.1991-02	1.243	9.511	552.0
248	32.000	1.0600	842.00	.1246	.1027	.1190	.2240-02	.1845-02	.2139-02	1.336	10.99	551.4
248	45.000	.92500	969.00	.1500-02	.1300-02	.1500-02	.2715-04	.2248-04	.2715-04	.1700-01	.1240	534.5
248	45.000	.97500	978.00	.6000-03	.5000-03	.6000-03	.1049-04	.8682-05	.1049-04	.6000-02	.4800-01	534.3
248	75.000	.97500	977.00	.4000-03	.3000-03	.4000-03	.7152-05	.5921-05	.7152-05	.4000-02	.3300-01	534.4
248	180.00	.10000-01	59.000	.1840	.1518	.1840	.3307-02	.2728-02	.3307-02	1.998	14.75	546.7
248	180.00	.25000-01	60.000	.5460-01	.4510-01	.5460-01	.9808-03	.8108-03	.9808-03	.5970	4.297	539.7
248	180.00	.50000-01	61.000	.2460-01	.2040-01	.2460-01	.4426-03	.3660-03	.4426-03	.2700	1.723	538.1
248	180.00	.75000-01	62.000	.1370-01	.1130-01	.1370-01	.2456-03	.2032-03	.2456-03	.1500	.9570	537.6
248	180.00	.10000+00	63.000	.9100-02	.7500-02	.9100-02	.1627-03	.1346-03	.1627-03	.9300-01	.6530	537.2
248	180.00	.12500	64.000	.8900-02	.7400-02	.8900-02	.1593-03	.1323-03	.1593-03	.9800-01	.6830	536.8
248	180.00	.15000	65.000	.1040-01	.8500-02	.1040-01	.1878-03	.1554-03	.1878-03	.1150	.8020	536.6
248	180.00	.16000	66.000	.2340-01	.1940-01	.2340-01	.4208-03	.3480-03	.4208-03	.2570	1.434	537.9
248	180.00	.17000	67.000	.6240-01	.5160-01	.6240-01	.1122-02	.9278-03	.1122-02	.6830	3.812	539.6
248	180.00	.20000	69.000	.1510-01	.1250-01	.1510-01	.2714-03	.2245-03	.2714-03	.1660	1.031	536.6
248	180.00	.40100	72.000	.4700-02	.3900-02	.4700-02	.8408-04	.6958-04	.8408-04	.5100-01	.4390	535.5
248	180.00	.50000	73.000	.5200-02	.4300-02	.5200-02	.9380-04	.7762-04	.9380-04	.5700-01	.4890	536.0
248	180.00	.60100	74.000	.5700-02	.4700-02	.5700-02	.1019-03	.8432-04	.1019-03	.6200-01	.5150	535.8
248	180.00	.70100	75.000	.6900-02	.5700-02	.6900-02	.1243-03	.1029-03	.1243-03	.7600-01	.6090	535.2

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1814)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
230	7.940	1.025	30.00	.0000	180.0	210.8	.2300-01	1265.	93.00	1.000	3751.	.2046-04
231	7.940	1.022	30.01	.0000	180.0	210.5	.2300-01	1267.	93.10	.9990	3754.	.2040-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
230	.7485-07		.2445-01	0.0175
231	.7495-07		.2444-01	.4025-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
230	.00000	.00000	1.0000	.7778	.6335	.6654	.1902-01	.1549-01	.1629-01	10.57	57.71	583.0
230	.00000	.50000-02	2.0000	.7463	.6068	.6103	.1825-01	.1483-01	.1492-01	10.04	68.35	588.5
230	.00000	.10000-01	3.0000	.6358	.5187	.5366	.1534-01	.1268-01	.1312-01	8.715	57.84	578.0
230	.00000	.20000-01	4.0000	.3438	.2825	.3037	.8405-02	.6907-02	.7425-02	4.899	27.12	555.9
230	.00000	.30000-01	5.0000	.2959	.2432	.2668	.7234-02	.5945-02	.6522-02	4.224	23.40	554.7
230	.00000	.40000-01	6.0000	.2416	.1988	.2209	.5907-02	.4860-02	.5401-02	3.468	19.24	551.5
230	.00000	.50000-01	7.0000	.2283	.1874	.2107	.5581-02	.4583-02	.5151-02	3.242	21.74	557.7
230	.00000	.60000-01	8.0000	.2230	.1833	.2074	.5451-02	.4480-02	.5070-02	3.182	20.15	554.9
230	.00000	.70000-01	9.0000	.1911	.1570	.1790	.4672-02	.3838-02	.4377-02	2.721	18.83	556.2
230	.00000	.80000-01	10.000	.1560	.1282	.1470	.3814-02	.2933-02	.3534-02	2.226	15.41	554.9
230	.00000	.90000-01	11.000	.1446	.1190	.1369	.3535-02	.2670-02	.3084-02	2.074	13.15	551.9
230	.00000	.10000+00	12.000	.1327	.1092	.1261	.3245-02	.2333-02	.2776-02	1.906	11.43	551.4
230	.00000	.12000	14.000	.1188	.9790-01	.1136	.2905-02	.2299-02	.2673-02	1.715	9.528	548.5
230	.00000	.13000	15.000	.1142	.9400-01	.1093	.2792-02	.2299-02	.2673-02	1.647	9.630	549.0
230	.00000	.14000	16.000	.1047	.8620-01	.1004	.2551-02	.2108-02	.2455-02	1.509	9.583	549.2
230	.00000	.16000	18.000	.1086	.8940-01	.1044	.2666-02	.2186-02	.2551-02	1.564	9.649	549.9
230	.00000	.17000	19.000	.1091	.8980-01	.1049	.2667-02	.2195-02	.2565-02	1.569	9.957	550.2
230	.00000	.18000	20.000	.1055	.8680-01	.1015	.2578-02	.2122-02	.2482-02	1.517	9.623	550.4
230	.00000	.19000	21.000	.1032	.8500-01	.9950-01	.2523-02	.2078-02	.2432-02	1.490	9.461	548.2

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(RV1B14)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TM DEG. R
230	.00000	.20000	22.000	.1000+00	.8230-01	.9650-01	.2444-02	.2012-02	.2360-02	1.439	9.130	550.1
230	.00000	.22500	23.000	.9490-01	.7820-01	.9190-01	.2321-02	.1911-02	.2247-02	1.368	8.687	549.2
230	.00000	.25000	801.00	.8970-01	.7380-01	.8690-01	.2192-02	.1805-02	.2126-02	1.292	8.202	549.3
230	.00000	.30000	802.00	.7950-01	.6540-01	.7710-01	.1944-02	.1630-02	.1895-02	1.143	7.254	550.5
230	.00000	.35000	803.00	.7720-01	.6350-01	.7490-01	.1888-02	.1553-02	.1831-02	1.106	7.010	552.8
230	.00000	.40000	804.00	.8220-01	.6760-01	.7970-01	.2011-02	.1654-02	.1949-02	1.178	7.684	552.9
230	.00000	.45000	805.00	.7770-01	.6390-01	.7540-01	.1901-02	.1563-02	.1843-02	1.111	7.463	554.1
230	.00000	.50000	806.00	.6930-01	.5700-01	.6720-01	.1695-02	.1393-02	.1643-02	.990	6.855	554.7
230	.00000	.55000	807.00	.6640-01	.5460-01	.6440-01	.1624-02	.1334-02	.1574-02	.946	6.978	556.4
230	.00000	.60000	808.00	.5930-01	.4920-01	.5810-01	.1464-02	.1203-02	.1420-02	.853	6.295	556.3
230	.00000	.65000	809.00	.5700-01	.4680-01	.5520-01	.1393-02	.1144-02	.1350-02	.809	5.969	557.7
230	.00000	.70000	810.00	.5200-01	.4270-01	.5040-01	.1271-02	.1044-02	.1232-02	.738	5.633	557.7
230	.00000	.75000	811.00	.5600-01	.4570-01	.5390-01	.1360-02	.1117-02	.1318-02	.790	5.830	557.5
230	.00000	.80000	812.00	.5900-01	.4770-01	.5620-01	.1419-02	.1165-02	.1375-02	.825	6.083	557.3
230	.00000	.85000	813.00	.5550-01	.4560-01	.5440-01	.1356-02	.1114-02	.1329-02	.790	6.030	556.3
230	.00000	.90000	814.00	.5170-01	.4250-01	.5080-01	.1265-02	.1040-02	.1243-02	.740	5.293	553.7
230	.00000	.92500	815.00	.4070-01	.3350-01	.4010-01	.9943-03	.8179-03	.9796-03	.583	4.794	551.9
230	.00000	.95000	816.00	.2080-01	.1710-01	.2060-01	.5091-03	.4191-03	.5030-03	.300	2.466	550.0
230	.00000	.97500	817.00	.1500-01	.1230-01	.1490-01	.3666-03	.3017-03	.3631-03	.216	1.774	550.4
230	.00000	1.0150	818.00	.2110-01	.1730-01	.2090-01	.5154-03	.4232-03	.5120-03	.299	2.205	558.3
230	.00000	1.0300	819.00	.1233	.1011	.1225	.3014-02	.2472-02	.2994-02	1.739	12.60	561.7
230	.00000	1.0600	821.00	.2356	.1934	.2350	.5785-02	.4729-02	.5746-02	3.276	27.15	572.4
230	.00000	1.5000	83.000	.7100-02	.5800-02	.7100-02	.1728-03	.1427-03	.1728-03	.104	.625	539.7
230	.11.500	.20000	91.000	.1760-01	.1450-01	.1760-01	.4291-03	.3542-03	.4291-03	.257	1.593	539.9
230	.14.000	.50000-01	90.000	.1050-01	.8700-02	.1060-01	.2584-03	.2133-03	.2584-03	.155	.933	540.0
230	.17.500	.40000	823.00	.8190-01	.6730-01	.7940-01	.2002-02	.1645-02	.1941-02	1.167	9.228	555.9
230	.17.500	.50000	824.00	.7760-01	.6370-01	.7520-01	.1897-02	.1558-02	.1839-02	1.101	8.701	558.2
230	.17.500	.60000	825.00	.5170-01	.4250-01	.5010-01	.1265-02	.1038-02	.1226-02	.733	6.486	558.8
230	.17.500	.70000	826.00	.5160-01	.4250-01	.5970-01	.1507-02	.1237-02	.1460-02	.874	6.441	558.7
230	.17.500	.80000	827.00	.5320-01	.4780-01	.5640-01	.1423-02	.1169-02	.1380-02	.827	6.102	557.5
230	.17.500	.90000	828.00	.4520-01	.3710-01	.4440-01	.1104-02	.0979-03	.1095-02	.646	5.110	554.2
230	.20.000	.92500	971.00	.5500-01	.4520-01	.5500-01	.1345-02	.1104-02	.1345-02	.781	5.761	557.7
230	.20.000	.95000	975.00	.7080-01	.5820-01	.7080-01	.1732-02	.1423-02	.1732-02	1.011	7.462	555.1
230	.20.000	.97500	980.00	.7080-01	.5820-01	.7080-01	.1731-02	.1424-02	.1731-02	1.016	7.513	551.9
230	.24.000	.20000	93.000	.1100-01	.9100-02	.1100-01	.2681-03	.2213-03	.2681-03	.161	.996	539.8
230	.30.000	.92500	970.00	.5540-01	.4550-01	.5540-01	.1354-02	.1114-02	.1354-02	.794	5.872	552.2
230	.30.000	.95000	974.00	.6060-01	.4990-01	.6060-01	.1482-02	.1219-02	.1482-02	.869	6.425	552.4
230	.30.000	.97500	979.00	.5450-01	.4490-01	.5450-01	.1331-02	.1093-02	.1331-02	.796	5.917	541.1
230	.32.000	.40000	.83100+10	.1057	.8650-01	.1020	.2573-02	.2115-02	.2494-02	1.502	10.40	554.7
230	.32.000	.50000	832.00	.8230-01	.6800-01	.8030-01	.2026-02	.1664-02	.1954-02	1.176	8.390	558.3
230	.32.000	.60000	833.00	.7150-01	.6030-01	.7130-01	.1798-02	.1475-02	.1742-02	1.040	6.954	560.2
230	.32.000	.70000	834.00	.6240-01	.5120-01	.6050-01	.1526-02	.1251-02	.1479-02	.879	6.692	562.6
230	.32.000	.80000	835.00	.5220-01	.4290-01	.5060-01	.1277-02	.1049-02	.1238-02	.743	5.302	557.1



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## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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P/N NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
230	32.000	.90000	835.00	.4510-01	.3710-01	.4430-01	.1103-02	.9074-03	.1084-02	.6460	4.776	553.1
230	32.000	.95000	837.00	.4900-01	.4030-01	.4840-01	.1198-02	.9859-03	.1184-02	.7030	5.381	551.9
230	32.000	.97500	838.00	.1290-01	.1070-01	.1280-01	.3163-03	.2605-03	.3133-03	.1870	1.482	548.5
230	32.000	1.0150	839.00	.3010-01	.2470-01	.2870-01	.7367-03	.6043-03	.7026-03	.4260	3.418	561.0
230	32.000	1.0300	840.00	.1218	.9960-01	.1161	.2377-02	.2440-02	.2839-02	1.711	13.24	563.9
230	32.000	1.0450	841.00	.1716	.1405	.1636	.4196-02	.3436-02	.4000-02	2.402	18.25	566.2
230	32.000	1.0600	842.00	.1684	.1380	.1606	.4118-02	.3374-02	.3927-02	2.365	19.31	564.4
230	45.000	.92500	969.00	.7300-02	.6000-02	.7300-02	.1777-03	.1467-03	.1777-03	1.060	.7910	540.6
230	45.000	.95000	973.00	.5000-03	.4000-03	.5000-03	.1202-04	.9924-05	.1202-04	.7000-02	.5400-01	540.1
230	45.000	.97500	978.00	.6000-03	.5000-03	.6000-03	.1486-04	.1227-04	.1486-04	.9000-02	.6600-01	539.5
230	75.000	.97500	977.00	.4000-03	.4000-03	.4000-03	.1079-04	.8911-05	.1079-04	.6000-02	.4800-01	539.7
230	85.000	.97500	976.00	.5000-03	.4000-03	.5000-03	.1250-04	.1032-04	.1250-04	.7000-02	.5600-01	539.7
230	180.00	.10000-00	59.000	.1813	.1491	.1813	.4431-02	.3646-02	.4431-02	2.601	19.24	551.7
230	180.00	.25000-01	60.000	.5130-01	.4280-01	.5190-01	.1268-02	.1046-02	.1268-02	.7540	5.420	544.3
230	180.00	.50000-01	61.000	.2250-01	.1860-01	.2250-01	.5505-03	.4542-03	.5505-03	.3290	2.095	541.5
230	180.00	.75000-01	62.000	.1230-01	.1010-01	.1230-01	.2938-03	.2475-03	.2938-03	.1790	1.143	540.9
230	180.00	.10000-00	63.000	.8700-02	.7200-02	.8700-02	.1233-03	.1752-03	.2123-03	.1270	.8330	540.9
230	180.00	.12500	64.000	.9100-02	.7500-02	.9100-02	.2226-03	.1838-03	.2226-03	.1330	.9280	540.9
230	180.00	.15000	65.000	.1450-01	.1200-01	.1450-01	.3556-03	.2935-03	.3556-03	.2130	1.484	540.4
230	180.00	.16000	66.000	.5070-01	.4180-01	.5070-01	.1239-02	.1022-02	.1239-02	.7380	4.115	542.7
230	180.00	.17000	67.000	.6730-01	.5550-01	.6730-01	.1645-02	.1356-02	.1645-02	.9760	5.436	545.0
230	180.00	.20000	69.000	.1580-01	.1310-01	.1580-01	.3872-03	.3196-03	.3872-03	.2320	1.436	540.5
230	180.00	.40100	72.000	.5200-02	.4300-02	.5200-02	.1269-03	.1047-03	.1269-03	.7600-01	.6450	540.6
230	180.00	.50000	73.000	.7600-02	.6300-02	.7600-02	.1856-03	.1531-03	.1856-03	.1110	.9420	541.4
230	180.00	.60100	74.000	.6400-02	.5300-02	.6400-02	.1566-03	.1292-03	.1566-03	.9300-01	.7690	541.8
230	180.00	.70100	75.000	.7300-02	.6000-02	.7300-02	.1775-03	.1455-03	.1775-03	.1060	.8450	541.1

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
BDFLAP = 15.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
217	8.000	3.774	30.07	.0000	180.0	859.1	.8800-01	1336.	96.80	3.942	3857.	.7627-04
218	8.000	3.778	30.06	.0000	180.0	858.3	.8800-01	1334.	96.70	3.938	3854.	.7629-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
217	.7793-07	.4899-01	0.0175
218	.7784-07	.4896-01	.2093-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
217	.00000	.00000	1.0000	.7751	.6279	.6615	.3798-01	.3076-01	.3241-01	21.63	115.3	632.6
217	.00000	.50000-02	2.0000	.7485	.6038	.6075	.3658-01	.2958-01	.2976-01	20.43	135.3	645.2
217	.00000	.10000-01	3.0000	.6187	.5026	.5201	.3031-01	.2462-01	.2549-01	17.53	113.7	624.0
217	.00000	.20000-01	4.0000	.3973	.3268	.3511	.1946-01	.1531-01	.1720-01	12.05	65.79	533.3
217	.00000	.30000-01	5.0000	.2939	.2424	.2654	.1440-01	.1188-01	.1300-01	9.058	49.72	573.1
217	.00000	.40000-01	6.0000	.2440	.2016	.2235	.1195-01	.9877-02	.1095-01	7.590	41.78	567.3
217	.00000	.50000-01	7.0000	.2272	.1871	.2099	.1113-01	.9165-02	.1028-01	6.931	45.97	579.6
217	.00000	.60000-01	8.0000	.2262	.1865	.2106	.1108-01	.9139-02	.1032-01	6.958	43.62	574.5
217	.00000	.70000-01	9.0000	.1937	.1596	.1816	.9490-02	.7818-02	.8997-02	5.925	40.55	577.9
217	.00000	.80000-01	10.000	.1527	.1260	.1441	.7481-02	.6174-02	.7058-02	4.721	32.42	571.2
217	.00000	.90000-01	11.000	.1439	.1189	.1363	.7049-02	.5827-02	.6680-02	4.489	28.27	565.5
217	.00000	.10000+00	12.000	.1326	.1097	.1262	.6498-02	.5372-02	.6182-02	4.141	24.67	565.1
217	.00000	.12000	14.000	.1185	.9810-01	.1133	.5805-02	.4806-02	.5553-02	3.730	20.61	559.7
217	.00000	.13000	15.000	.1112	.9200-01	.1065	.5445-02	.4507-02	.5218-02	3.493	20.30	550.9
217	.00000	.14000	16.000	.1029	.8510-01	.1038	.5042-02	.4171-02	.4837-02	3.228	20.37	551.9
217	.00000	.16000	18.000	.1080	.8930-01	.1038	.5293-02	.4376-02	.5063-02	3.377	20.68	564.3
217	.00000	.17000	19.000	.1051	.8770-01	.1021	.5198-02	.4296-02	.5003-02	3.310	20.85	565.4
217	.00000	.18000	20.000	.1051	.8690-01	.1013	.5150-02	.4256-02	.4961-02	3.275	20.62	566.3
217	.00000	.19000	21.000	.1031	.8530-01	.9950-01	.5051-02	.4178-02	.4873-02	3.228	20.35	563.2

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OH-49B (AEDC V41B-57A) ORBITTER FUSELAGE

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PCN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF P=1.0	H/HREF (TAH)	H(10) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	HITAN) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
217	.00000	.20000	22.000	.9820-01	.9110-01	.9480-01	.4803-02	.3975-02	.4645-02	3.061	19.28	555.7
217	.00000	.22500	23.000	.9480-01	.7840-01	.9180-01	.4846-02	.3842-02	.4500-02	2.964	18.68	554.3
217	.00000	.25000	801.00	.9020-01	.7460-01	.8750-01	.4419-02	.3533-02	.4287-02	2.816	17.74	554.9
217	.00000	.30000	802.00	.8210-01	.6790-01	.7970-01	.4023-02	.3325-02	.3902-02	2.560	16.12	555.9
217	.00000	.35000	803.00	.8750-01	.7220-01	.8490-01	.4287-02	.3537-02	.4157-02	2.704	16.98	571.4
217	.00000	.40000	804.00	.8730-01	.7210-01	.8470-01	.4278-02	.3530-02	.4150-02	2.695	17.41	572.5
217	.00000	.45000	805.00	.7880-01	.6490-01	.7840-01	.3853-02	.3182-02	.3742-02	2.422	16.10	574.8
217	.00000	.50000	806.00	.7460-01	.6160-01	.7250-01	.3663-02	.3018-02	.3552-02	2.287	15.65	578.1
217	.00000	.55000	807.00	.7920-01	.6520-01	.7670-01	.3878-02	.3192-02	.3759-02	2.409	17.56	581.1
217	.00000	.60000	808.00	.6350-01	.6870-01	.8100-01	.4092-02	.3356-02	.3956-02	2.536	18.47	582.5
217	.00000	.65000	809.00	.1028	.8440-01	.9360-01	.5036-02	.4135-02	.4679-02	3.088	22.43	588.9
217	.00000	.70000	810.00	.1371	.1124	.1328	.515-02	.5505-02	.6505-02	4.079	30.55	594.8
217	.00000	.75000	811.00	.1757	.1438	.1701	.8607-02	.7044-02	.8335-02	5.184	37.44	599.9
217	.00000	.80000	812.00	.2203	.1800	.2133	.1073-01	.8819-02	.1045-01	6.441	46.39	605.4
217	.00000	.85000	813.00	.2283	.1665	.2236	.1119-01	.9135-02	.1096-01	6.653	49.52	607.5
217	.00000	.90000	814.00	.2181	.1784	.2141	.1068-01	.8740-02	.1049-01	6.420	44.84	601.4
217	.00000	.92500	815.00	.1844	.1511	.1816	.9034-02	.7403-02	.8895-02	5.478	44.05	595.9
217	.00000	.95000	816.00	.1856	.1519	.1832	.9034-02	.7403-02	.8895-02	5.478	44.05	600.4
217	.00000	.97500	817.00	.1954	.1597	.1934	.9575-02	.7823-02	.9477-02	5.713	45.71	605.6
217	.00000	1.0150	818.00	.3579	.2692	.3552	.1753-01	.1417-01	.1740-01	9.863	69.86	639.7
217	.00000	1.0300	819.00	.3711	.3001	.3683	.1918-01	.1470-01	.1805-01	10.26	72.77	637.8
217	.00000	1.0450	820.00	.3555	.2943	.3627	.1791-01	.1442-01	.1777-01	9.881	74.60	650.5
217	.00000	1.0600	821.00	.2984	.2406	.2961	.1462-01	.1179-01	.1451-01	8.136	65.06	645.7
217	.00000	1.5000	89.000	.5400-02	.4500-02	.5400-02	.2554-03	.2207-03	.2654-03	1.750	1.057	541.6
217	.00000	2.0000	91.000	.2590-01	.2150-01	.2590-01	.1268-02	.1054-02	.1268-02	.8350	5.164	544.3
217	.00000	5.0000-01	96.000	.9500-02	.7200-02	.8600-02	.4229-03	.3517-03	.4229-03	.2790	1.683	541.9
217	.00000	.40000	823.00	.8590-01	.7070-01	.8330-01	.4208-02	.3463-02	.4079-02	2.616	20.43	580.6
217	.00000	.50000	824.00	.8260-01	.6790-01	.8000-01	.4045-02	.3325-02	.3920-02	2.495	19.45	585.4
217	.00000	.60000	825.00	.6370-01	.5240-01	.6180-01	.3123-02	.2566-02	.3027-02	1.922	16.77	586.8
217	.00000	.70000	826.00	.1097	.9000-01	.1063	.5376-02	.4408-02	.5208-02	3.270	23.68	594.0
217	.00000	.80000	827.00	.1841	.1507	.1783	.9021-02	.7382-02	.8735-02	5.427	39.18	600.6
217	.00000	.90000	828.00	.1198	.9840-01	.1785	.8939-02	.7293-02	.8746-02	5.362	41.48	600.4
217	.00000	.92500	971.00	.1198	.9840-01	.1785	.8939-02	.7293-02	.8746-02	5.362	26.21	587.8
217	.00000	.95000	975.00	.1521	.1248	.1521	.5872-02	.4823-02	.5872-02	3.608	32.92	592.7
217	.00000	.97500	980.00	.1391	.1135	.1381	.7432-02	.6112-02	.7432-02	4.543	30.25	587.2
217	.00000	.20000	93.000	.1430-01	.1190-01	.1430-01	.6564-03	.5608-03	.6984-03	4.610	2.853	542.6
217	.00000	.25000	970.00	.1041	.8580-01	.1041	.5102-02	.4205-02	.5102-02	3.195	23.35	576.0
217	.00000	.30000	974.00	.1373	.1128	.1373	.6724-02	.5525-02	.6724-02	4.136	30.06	587.2
217	.00000	.35000	979.00	.7620-01	.6310-01	.7620-01	.3733-02	.3091-02	.3733-02	2.402	17.70	558.8
217	.00000	.40000	.83100+10	.1031	.8490-01	.9990-01	.5050-02	.4161-02	.4896-02	3.159	21.64	576.6
217	.00000	.50000	832.00	.9340-01	.7680-01	.9950-01	.4575-02	.3762-02	.4434-02	2.826	19.92	584.2
217	.00000	.60000	833.00	.8560-01	.7030-01	.8290-01	.4193-02	.3444-02	.4063-02	2.574	17.00	588.3
217	.00000	.70000	834.00	.9170-01	.7510-01	.8890-01	.4490-02	.3680-02	.4349-02	2.723	20.38	595.9

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AW) BTU/ R FT2SEC	QDOT BTU, FT2SEC	DT/DT DEG. R /SEC	TW DEG. R
217	32.000	.000	835.00	.1193	.9930-01	.1161	.5872-02	.4816-02	.5698-02	3.579	25.10	592.7
217	32.000	.90000	835.00	.1515	.1244	.1488	.7424-02	.6092-02	.7291-02	4.536	32.50	591.3
217	32.000	.95000	837.00	.1642	.1348	.1621	.8043-02	.6602-02	.7942-02	4.924	36.97	590.1
217	32.000	.97000	835.00	.1534	.1368	.1677	.8300-02	.6801-02	.8217-02	5.028	38.57	595.5
217	32.000	1.0150	833.00	.3253	.3097	.3262	.1833-01	.1517-01	.1794-01	10.21	78.03	662.8
217	32.000	1.0300	840.00	.4658	.3263	.3950	.1988-01	.1598-01	.1866-01	10.88	80.56	654.9
217	32.000	1.0450	841.00	.4278	.3435	.4056	.2096-01	.1683-01	.1987-01	11.40	82.64	658.0
217	32.000	1.0600	842.00	.3233	.2610	.3070	.1594-01	.1279-01	.1504-01	8.950	69.63	642.8
217	45.000	.93500	963.00	.2610-01	.2170-01	.2610-01	.1279-02	.1062-02	.1279-02	8.360	6.197	548.2
217	45.000	.95000	973.00	.1700-02	.1400-02	.1700-02	.8440-04	.7018-04	.8440-04	.5600-01	.4140	542.5
217	45.000	.97000	973.00	.1500-02	.1200-02	.1500-02	.7671-04	.6379-04	.7671-04	.5100-01	.3750	542.5
217	75.000	.97500	973.00	.8000-03	.7000-03	.8000-03	.3967-04	.3293-04	.3967-04	.2800-01	.1940	543.7
217	65.000	.97500	973.00	.2300-02	.1500-02	.2300-02	.1129-03	.9391-04	.1129-03	.7400-01	.5530	542.7
217	180.00	.10000-01	55.000	.1764	.1498	.1764	.8543-02	.7142-02	.8543-02	5.497	40.37	566.2
217	180.00	.25000-01	60.000	.4820-01	.4000-01	.4820-01	.2362-02	.1951-02	.2362-02	1.546	11.09	547.8
217	180.00	.50000-01	61.000	.2660-01	.1700-01	.2660-01	.1012-02	.8411-03	.1012-02	.6660	4.242	543.6
217	180.00	.75000-01	62.000	.1950-01	.9000-02	.1030-01	.5295-03	.4404-03	.5295-03	.3490	2.824	542.8
217	180.00	.10000-00	63.000	.9500-02	.8000-02	.9500-02	.4726-03	.3929-03	.4726-03	.3110	2.042	543.1
217	180.00	.12500	64.000	.1250-01	.1130-01	.1380-01	.6557-03	.5534-03	.6557-03	.4380	3.050	544.0
217	180.00	.15000	65.000	.2450-01	.2030-01	.2450-01	.1199-02	.9658-03	.1199-02	.7870	5.478	545.2
217	180.00	.16000	65.000	.7690-01	.6370-01	.7690-01	.3765-02	.3123-02	.3765-02	2.441	13.53	554.0
217	180.00	.17000	67.000	.9490-01	.7870-01	.9490-01	.4649-02	.3855-02	.4649-02	3.014	16.71	553.9
217	180.00	.20000	69.000	.1550-01	.1290-01	.1550-01	.7585-03	.6308-03	.7585-03	.5000	3.097	542.9
217	190.00	.40100	72.000	.1210-01	.1000-01	.1210-01	.5905-03	.4909-03	.5905-03	.3890	3.295	544.3
217	180.00	.50000	73.000	.1060-01	.8800-02	.1060-01	.5209-03	.4337-03	.5209-03	.3430	2.910	544.0
217	180.00	.60100	74.000	.8000-02	.6700-02	.8000-02	.3934-03	.3270-03	.3934-03	.2590	2.128	543.6
217	180.00	.70100	75.000	.7100-02	.5900-02	.7100-02	.3464-03	.2880-03	.3464-03	.2280	1.818	543.0

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

PARAMETRIC DATA									
ALPHA	BETA	ELEVTR	SPDRBK	Q	T	PSIA	V	RHO	
40.30	.0000	.0000	.0000	.5340	94.40	.5340	3762.	.1086-04	
BDFLAP	MACH	8.000		.5380	94.40	.5380	3761.	.1095-04	

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SL'GS /F13
250	7.900	.5371	40.04	.0000	180.0	109.9	.1200-01	1273.	94.40	.5340	3762.	.1086-04
251	7.900	.5418	40.06	.0000	180.0	110.8	.1200-01	1273.	94.40	.5380	3761.	.1095-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
250	.7602-07	.1788-01	0.0175
251	.7600-07	.1795-01	.5497-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
250	.00000	.00000	1.0000	.6223	.5116	.5562	.1113-01	.9147-02	.9944-02	6.546	36.22	557.4
250	.00000	.50000-02	2.0000	.7098	.5824	.5824	.1269-01	.1041-01	.1041-01	7.384	50.90	563.9
250	.00000	.10000-01	3.0000	.6236	.5122	.5182	.1115-01	.9157-02	.9265-02	6.527	43.71	560.3
250	.00000	.20000-01	4.0000	.4909	.4051	.4211	.8776-02	.7243-02	.7358-02	5.278	29.39	544.3
250	.00000	.30000-01	5.0000	.3406	.2808	.2967	.6088-02	.5020-02	.5303-02	3.642	20.25	547.5
250	.00000	.40000-01	6.0000	.2798	.2309	.2466	.5003-02	.4127-02	.4408-02	3.003	16.71	545.6
250	.00000	.50000-01	7.0000	.2836	.2335	.2518	.5071-02	.4177-02	.4502-02	3.015	20.29	551.1
250	.00000	.60000-01	8.0000	.2870	.2366	.2556	.5131-02	.4229-02	.4586-02	3.062	19.44	548.9
250	.00000	.70000-01	9.0000	.2471	.2036	.2223	.4418-02	.3639-02	.3974-02	2.629	18.24	550.8
250	.00000	.80000-01	10.000	.2062	.1699	.1865	.3637-02	.3033-02	.3334-02	2.197	15.25	549.9
250	.00000	.90000-01	11.000	.1946	.1604	.1766	.3478-02	.2868-02	.3157-02	2.080	13.22	547.7
250	.00000	1.0000+00	12.000	.1798	.1483	.1639	.3215-02	.2651-02	.2929-02	1.924	11.56	547.5
250	.00000	.12000	14.000	.1653	.1364	.1514	.2956-02	.2439-02	.2707-02	1.775	9.880	545.2
250	.00000	.15000	15.000	.1572	.1297	.1442	.2810-02	.2318-02	.2578-02	1.686	9.879	545.6
250	.00000	.14000	16.000	.1487	.1227	.1366	.2659-02	.2193-02	.2442-02	1.595	10.14	545.9
250	.00000	.16000	18.000	.1538	.1269	.1416	.2750-02	.2268-02	.2531-02	1.648	10.18	546.6
250	.00000	.17000	19.000	.1500	.1237	.1382	.2681-02	.2211-02	.2471-02	1.606	10.21	547.0
250	.00000	.18000	20.000	.1528	.1260	.1409	.2731-02	.2252-02	.2519-02	1.634	10.39	547.4
250	.00000	.19000	21.000	.1460	.1204	.1348	.2603-02	.2153-02	.2410-02	1.568	9.975	544.9

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
250	.00000	.20000	22.000	.1433	.1182	.1325	.2563-02	.2114-02	.2369-02	1.535	9.758	546.8
250	.00000	.22500	23.000	.1332	.1099	.1234	.2381-02	.1964-02	.2207-02	1.428	9.082	545.9
250	.00000	.25000	801.00	.1310	.1081	.1216	.2342-02	.1932-02	.2174-02	1.405	8.932	546.0
250	.00000	.30000	802.00	.1244	.1027	.1155	.2225-02	.1835-02	.2065-02	1.334	8.482	546.2
250	.00000	.35000	803.00	.1257	.1036	.1167	.2248-02	.1853-02	.2086-02	1.343	8.528	548.3
250	.00000	.40000	804.00	.1218	.1004	.1131	.2178-02	.1796-02	.2022-02	1.303	8.520	547.7
250	.00000	.45000	805.00	.1075	.8860-01	.9980-01	.1922-02	.1584-02	.1784-02	1.146	7.717	549.3
250	.00000	.50000	806.00	.9960-01	.8210-01	.9240-01	.1780-02	.1467-02	.1652-02	1.062	7.373	549.3
250	.00000	.55000	807.00	.9473-01	.7800-01	.8790-01	.1693-02	.1395-02	.1571-02	1.008	7.458	550.7
250	.00000	.60000	808.00	.8740-01	.7200-01	.8110-01	.1563-02	.1268-02	.1450-02	.9300	6.886	550.5
250	.00000	.65000	809.00	.8500-01	.7000-01	.7880-01	.1519-02	.1163-02	.1409-02	.9020	6.673	551.9
250	.00000	.70000	810.00	.7910-01	.6520-01	.7330-01	.1412-02	.1163-02	.1310-02	.8380	6.415	552.0
250	.00000	.75000	811.00	.7910-01	.6510-01	.7340-01	.1414-02	.1164-02	.1312-02	.8100	6.211	551.8
250	.00000	.80000	812.00	.7550-01	.6300-01	.7180-01	.1366-02	.1127-02	.1283-02	.7800	6.234	550.7
250	.00000	.85000	813.00	.7310-01	.6030-01	.6980-01	.1307-02	.1078-02	.1223-02	.7800	5.595	548.9
250	.00000	.90000	814.00	.5760-01	.4750-01	.5430-01	.1023-02	.8487-03	.9705-03	.6160	5.071	547.7
250	.00000	.92500	815.00	.2800-01	.2310-01	.2650-01	.5012-03	.4134-03	.4739-03	.3000	2.476	546.5
250	.00000	.97500	817.00	.2500-01	.2060-01	.2370-01	.4472-03	.3687-03	.4239-03	.3670	2.203	547.7
250	.00000	1.0150	818.00	.3640-01	.2990-01	.3460-01	.6511-03	.5706-02	.6185-03	.3820	2.815	559.1
250	.00000	1.0300	819.00	.1843	.1513	.1750	.3295-02	.2706-02	.3129-02	1.925	14.17	561.5
250	.00000	1.0600	821.00	.2948	.2335	.2703	.5091-02	.4174-02	.4832-02	2.949	24.51	566.6
250	.00000	1.5000	89.000	.3700-02	.3000-02	.3700-02	.6556-04	.5422-04	.6536-04	.4000-01	.2420	536.2
250	.00000	2.0000	91.000	.8700-02	.7200-02	.8700-02	.1551-03	.1283-03	.1551-03	.9500-01	.5880	535.3
250	.00000	5.0000-01	90.000	.1390-01	.1150-01	.1390-01	.2482-03	.2053-03	.2482-03	.1510	.9140	536.3
250	.00000	823.00	824.00	.1175	.9670-01	.1090	.2100-02	.1729-02	.1948-02	1.248	9.893	551.4
250	.00000	824.00	825.00	.1082	.8910-01	.1064	.1935-02	.1593-02	.1795-02	1.146	9.035	552.5
250	.00000	825.00	826.00	.7260-01	.5980-01	.6730-01	.1298-02	.1068-02	.1204-02	.7690	6.824	553.0
250	.00000	826.00	827.00	.8570-01	.7050-01	.7950-01	.1532-02	.1261-02	.1421-02	.9080	6.709	553.1
250	.00000	827.00	828.00	.8150-01	.6710-01	.7560-01	.1457-02	.1200-02	.1352-02	.8950	6.400	551.8
250	.00000	828.00	829.00	.6530-01	.5460-01	.6230-01	.1185-02	.9767-03	.1114-02	.7070	5.609	549.3
250	.00000	971.00	971.00	.9530-01	.7840-01	.9530-01	.1703-02	.1401-02	.1703-02	1.007	7.443	554.2
250	.00000	975.00	975.00	.1029	.8470-01	.1029	.1839-02	.1514-02	.1839-02	1.091	8.072	552.2
250	.00000	975.00	975.00	.9550-01	.7950-01	.9650-01	.1724-02	.1420-02	.1724-02	1.026	7.594	550.8
250	.00000	980.00	980.00	.8700-02	.7200-02	.8700-02	.1551-03	.1283-03	.1551-03	.9500-01	.5880	535.6
250	.00000	970.00	970.00	.7780-01	.6410-01	.7780-01	.1391-02	.1147-02	.1391-02	.8320	6.163	547.9
250	.00000	974.00	974.00	.8740-01	.7200-01	.8740-01	.1562-02	.1287-02	.1562-02	.9330	6.913	548.4
250	.00000	973.00	973.00	.3720-01	.3070-01	.3720-01	.6648-03	.5494-03	.6648-03	.4030	2.998	539.7
250	.00000	821.00+10	821.00+10	.1359	.1120	.1261	.2429-02	.2001-02	.2254-02	1.448	10.05	549.6
250	.00000	832.00	832.00	.1131	.9310-01	.1050	.2022-02	.1665-02	.1876-02	1.200	8.591	552.2
250	.00000	833.00	833.00	.1031	.8490-01	.9560-01	.1843-02	.1517-02	.1710-02	1.091	7.327	554.0
250	.00000	834.00	834.00	.1063	.8740-01	.9860-01	.1500-02	.1563-02	.1762-02	1.124	8.592	554.0
250	.00000	835.00	835.00	.7920-01	.6520-01	.7340-01	.1415-02	.1165-02	.1313-02	.8410	6.018	551.7

(RV1815)

AEDC VKF V418-57A (OH-498) COLLATION DECK

OH-498 (AEDC V418-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. "
250	32.000	.90000	836.00	.6730-01	.5550-01	.6330-01	.1203-02	.9916-03	.1131-02	.7180	5.317	549.1
250	32.000	.95000	837.00	.6930-01	.5680-01	.5520-01	.1233-02	.1016-02	.1165-02	.7360	5.642	548.6
250	32.000	.97500	838.00	.2750-01	.2020-01	.2320-01	.4381-03	.3613-03	.4152-03	.2620	2.085	546.7
250	32.000	1.0150	839.00	.4350-01	.3570-01	.3970-01	.7772-03	.6382-03	.7096-03	.4540	3.647	561.4
250	32.000	1.0300	840.00	.1729	.1418	.1578	.3090-02	.2536-02	.2820-02	1.800	13.93	563.4
250	32.000	1.0450	841.00	.2241	.1879	.2045	.4006-02	.3288-02	.3557-02	2.334	17.76	563.3
250	32.000	1.0600	842.00	.1988	.1632	.16	.3553-02	.2918-02	.3244-02	2.080	17.02	560.5
250	45.000	.92500	969.00	.1050-01	.8700-02	.1050-01	.1873-03	.1549-03	.1873-03	.1140	.8500	536.6
250	45.000	.95000	973.00	.4000-03	.3200-03	.4000-02	.6357-05	.5261-05	.6357-05	.4000-02	.2500-01	534.8
250	45.000	.97500	978.00	.1200-02	.1000-02	.1200-02	.2065-04	.1709-04	.2065-04	.1300-01	.9400-01	534.4
250	75.000	.97500	977.00	.2000-03	.2000-03	.2000-03	.3243-05	.2684-05	.3243-05	.2000-02	.1500-01	534.4
250	95.000	.97500	976.00	.5000-03	.4000-03	.5000-02	.8744-05	.7237-05	.8744-05	.5000-02	.4000-01	534.3
250	120.00	.10000-01	59.000	.1127	.9310-01	.1127	.2015-02	.1654-02	.2015-02	1.217	9.045	541.9
250	180.00	.25000-01	60.000	.3350-01	.2520-01	.3050-01	.5446-03	.4502-03	.5446-03	.3310	2.383	538.6
250	180.00	.50000-01	61.000	.1510-01	.1250-01	.1510-01	.2698-03	.2231-03	.2698-03	.1640	1.047	538.1
250	180.00	.75000-01	62.000	.1030-01	.6500-02	.1030-01	.1845-03	.1526-03	.1845-03	.1120	.7170	537.6
250	180.00	.10000+00	63.000	.1090-01	.9000-02	.1090-01	.1956-03	.1618-03	.1956-03	.1700	.7820	537.2
250	180.00	.12500	64.000	.1560-01	.1230-01	.1560-01	.2793-03	.2310-03	.2793-03	.1700	1.187	537.2
250	180.00	.15000	65.000	.2240-01	.1850-01	.2240-01	.3998-03	.3307-03	.3998-03	.2430	1.700	537.3
250	180.00	.16000	66.000	.6180-01	.5100-01	.6180-01	.1104-02	.9126-03	.1104-02	.6700	3.745	538.4
250	180.00	.17000	67.000	.7270-01	.6010-01	.7270-01	.1299-02	.1074-02	.1299-02	.7870	4.391	540.1
250	180.00	.20000	69.000	.1860-01	.1540-01	.1860-01	.3320-03	.2745-03	.3320-03	.2020	1.255	536.6
250	180.00	.40100	72.000	.3000-02	.2500-02	.3000-02	.5345-04	.4423-04	.5345-04	.3300-01	.2780	535.4
250	180.00	.50000	73.000	.2700-02	.2200-02	.2700-02	.4811-04	.3981-04	.4811-04	.2900-01	.2510	535.3
250	180.00	.50100	74.000	.3700-02	.3100-02	.3700-02	.6602-04	.5462-04	.6602-04	.4000-01	.3330	535.5
250	180.00	.70100	75.000	.3800-02	.3200-02	.3800-02	.6835-04	.5657-04	.6835-04	.4200-01	.3340	534.5

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B15)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
232	7.940	1.017	40.05	.0000	180.0	209.9	.2300-01	1269.	93.20	.9960	3756.	.2032-04
233	7.940	1.020	40.04	.0000	180.0	210.7	.2300-01	1269.	93.20	1.000	3757.	.2039-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
232	.7506-07	.2441-01	0.0175
233	.7508-07	.2446-01	.4027-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(19TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(TAW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TW DEG. R
232	.00000	.00000	1.0000	.6009	.4924	.5361	.1467-01	.1202-01	.1308-01	8.447	46.53	565.8
232	.00000	.50000-02	2.0000	.7098	.5800	.5800	.1732-01	.1416-01	.1416-01	9.821	67.32	574.9
232	.00000	.10000-01	3.0000	.6075	.4972	.5031	.1483-01	.1213-01	.1228-01	8.474	56.46	570.4
232	.00000	.20000-01	4.0000	.4130	.3398	.3534	.1008-01	.8294-02	.8625-02	5.939	32.93	552.6
232	.00000	.30000-01	5.0000	.3420	.2814	.2974	.8348-02	.6867-02	.7259-02	4.913	27.24	553.2
232	.00000	.40000-01	6.0000	.2814	.2316	.2476	.6867-02	.5654-02	.6042-02	4.060	22.54	550.6
232	.00000	.50000-01	7.0000	.2781	.2284	.2464	.6787-02	.5575-02	.6015-02	3.961	26.55	558.1
232	.00000	.60000-01	8.0000	.2802	.2303	.2500	.6838-02	.5622-02	.6103-02	4.011	25.39	555.2
232	.00000	.70000-01	9.0000	.2441	.2006	.2192	.5958-02	.4835-02	.5351-02	3.482	24.08	557.4
232	.00000	.80000-01	10.000	.1945	.1600	.1757	.4750-02	.3906-02	.4290-02	2.789	19.31	554.7
232	.00000	.90000-01	11.000	.1945	.1601	.1764	.4748-02	.3908-02	.4306-02	2.801	17.76	551.8
232	.00000	.10000-00	12.000	.1812	.1491	.1649	.4423-02	.3639-02	.4025-02	2.603	15.60	553.3
232	.00000	.12000	14.000	.1619	.1333	.1482	.3953-02	.3255-02	.3616-02	2.338	12.98	550.2
232	.00000	.13000	15.000	.1565	.1289	.1435	.3823-02	.3147-02	.3504-02	2.258	13.19	551.2
232	.00000	.14000	16.000	.1477	.1215	.1355	.3604-02	.2966-02	.3306-02	2.127	13.49	551.6
232	.00000	.16000	18.000	.1528	.1257	.1404	.3723-02	.3069-02	.3428-02	2.197	13.54	552.6
232	.00000	.17000	19.000	.1484	.1221	.1365	.3522-02	.2979-02	.3333-02	2.131	13.50	553.5
232	.00000	.18000	20.000	.1495	.1230	.1377	.3650-02	.3002-02	.3362-02	2.147	13.60	553.5
232	.00000	.19000	21.000	.1459	.1201	.1346	.3562-02	.2932-02	.3286-02	2.103	13.34	551.2



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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B15)

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT/SEC	H(10) BTU/ R FT/SEC	H(11A) BTU/ R FT/SEC	QOOT BTU/ R FT/SEC	DTWDT DEG. R /SEC	TW DEG. R
232	.00000	.20000	22.000	.1416	.1165	.1308	.3457-02	.2844-02	.3192-02	2.035	12.89	553.2
232	.00000	.22500	23.000	.1317	.1084	.1220	.3215-02	.2646-02	.2977-02	1.895	12.01	552.3
232	.00000	.25000	801.00	.1303	.1072	.1208	.3180-02	.2616-02	.2949-02	1.874	11.87	552.6
232	.00000	.30000	802.00	.1209	.9950-01	.1122	.2952-02	.2429-02	.2738-02	1.738	11.01	553.2
232	.00000	.35000	803.00	.1239	.1018	.1148	.3023-02	.2485-02	.2803-02	1.772	11.21	555.7
232	.00000	.40000	804.00	.1203	.9980-01	.1115	.2935-02	.2413-02	.2721-02	1.719	11.20	556.0
232	.00000	.45000	805.00	.1058	.8770-01	.9890-01	.2656-02	.2141-02	.2415-02	1.522	10.20	557.8
232	.00000	.50000	806.00	.9720-01	.7990-01	.9010-01	.2372-02	.1849-02	.2199-02	1.385	9.572	558.1
232	.00000	.55000	807.00	.9370-01	.7690-01	.8690-01	.2236-02	.1677-02	.2118-02	1.329	9.790	550.4
232	.00000	.60000	808.00	.8730-01	.7170-01	.8030-01	.2131-02	.1749-02	.1974-02	1.239	9.127	560.3
232	.00000	.65000	809.00	.7980-01	.6220-01	.7020-01	.1850-02	.1518-02	.1714-02	1.071	8.577	562.6
232	.00000	.70000	810.00	.7980-01	.6540-01	.7330-01	.1948-02	.1597-02	.1804-02	1.127	8.577	563.0
232	.00000	.75000	811.00	.7640-01	.6270-01	.7080-01	.1865-02	.1530-02	.1728-02	1.078	7.926	563.9
232	.00000	.80000	812.00	.6330-01	.6840-01	.7720-01	.2034-02	.1668-02	.1884-02	1.178	8.672	562.3
232	.00000	.85000	813.00	.7970-01	.6540-01	.7460-01	.1945-02	.1595-02	.1821-02	1.127	8.582	562.1
232	.00000	.90000	814.00	.7550-01	.6200-01	.7100-01	.1845-02	.1514-02	.1732-02	1.073	7.646	560.4
232	.00000	.95000	815.00	.6180-01	.5070-01	.5820-01	.1585-02	.1238-02	.1420-02	.8790	7.195	559.1
232	.00000	.95000	816.00	.5310-01	.4350-01	.5010-01	.1297-02	.1065-02	.1224-02	.7550	6.182	559.4
232	.00000	.97500	817.00	.2380-01	.1950-01	.2250-01	.5801-03	.4762-03	.5491-03	.3370	2.759	560.5
232	.00000	1.0150	818.00	.1278	.1043	.1212	.3119-02	.2547-02	.2957-02	1.760	12.85	577.5
232	.00000	1.0300	819.00	.3482	.2340	.3300	.8498-02	.6932-02	.8054-02	4.772	34.60	580.2
232	.00000	1.0600	821.00	.3319	.2704	.3145	.8101-02	.6601-02	.7676-02	4.522	37.27	583.7
232	.00000	1.1500	89.000	.4400-02	.3500-02	.4400-02	.1070-03	.8838-04	.1070-03	.6400-01	.3890	539.2
232	.00000	20000	91.000	.8700-02	.7500-02	.8700-02	.2124-03	.1755-03	.2124-03	1.280	.7950	538.5
232	.00000	50000-01	90.000	.1850-01	.1530-01	.1550-01	.4516-03	.3731-03	.4516-03	.2720	1.644	538.7
232	.00000	.40000	823.00	.1177	.9550-01	.1091	.2873-02	.2358-02	.2652-02	1.559	13.16	561.2
232	.00000	.50000	824.00	.1045	.8570-01	.9280-01	.2551-02	.2092-02	.2363-02	1.475	11.62	563.5
232	.00000	.60000	825.00	.7030-01	.5740-01	.6480-01	.1708-02	.1401-02	.1582-02	.9870	8.710	563.9
232	.00000	.70000	826.00	.8260-01	.6770-01	.7650-01	.2017-02	.1653-02	.1868-02	1.163	8.545	565.3
232	.00000	.80000	827.00	.7960-01	.6530-01	.7000-01	.1942-02	.1593-02	.1799-02	1.124	8.270	562.9
232	.00000	.90000	828.00	.6480-01	.5320-01	.6020-01	.1581-02	.1297-02	.1484-02	.9190	7.250	560.5
232	.00000	.92500	971.00	.1257	.1030	.1257	.3066-02	.2514-02	.3069-02	1.768	12.99	565.3
232	.00000	.95000	975.00	.1305	.1071	.1305	.3187-02	.2613-02	.3187-02	1.842	13.54	563.9
232	.00000	.97500	980.00	.1205	.9890-01	.1205	.2942-02	.2414-02	.2942-02	1.706	12.56	561.9
232	.00000	20000	93.000	.1020-01	.8400-02	.1020-01	.2485-03	.2056-03	.2488-03	1.500	.9310	578.8
232	.00000	.92500	970.00	.1205	.9890-01	.1205	.2940-02	.2414-02	.2940-02	1.711	12.61	559.9
232	.00000	.95000	974.00	.1408	.1155	.1408	.3437-02	.2819-02	.3437-02	1.711	12.61	559.9
232	.00000	.97500	979.00	.8730-01	.7200-01	.8730-01	.2132-02	.1758-02	.2132-02	1.270	9.426	545.9
232	.00000	.83100+10	831.00	.1381	.1134	.1230	.3371-02	.2759-02	.3124-02	1.966	13.59	558.6
232	.00000	.50000	832.00	.1160	.9510-01	.1074	.2631-02	.2322-02	.2622-02	1.638	11.66	563.1
232	.00000	.60000	833.00	.9860-01	.6030-01	.9130-01	.2406-02	.1973-02	.2228-02	1.388	9.276	564.8
232	.00000	.70000	834.00	.6590-01	.5400-01	.6100-01	.1603-02	.1317-02	.1485-02	.9250	7.031	566.2
232	.00000	.80000	935.00	.7230-01	.5930-01	.6700-01	.1766-02	.1448-02	.1636-02	1.022	7.274	563.0

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JH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISTO) BTU/ R FT2SEC	H(OTO) BTU/ R FT2SEC	H(UTAW) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	OTWDT DEG. R /SEC	TW DEG. R
232	32.000	.90000	836.00	.6650-01	.5460-01	.6240-01	.1622-02	.1332-02	.1523-02	.9440	6.959	559.6
232	32.000	.95000	837.00	.8100-01	.6650-01	.7650-01	.1978-02	.1624-02	.1867-02	.9440	8.790	558.9
232	32.000	.97500	838.00	.4440-01	.3650-01	.4200-01	.1083-02	.8900-03	.1025-02	1.153	5.014	556.3
232	32.000	1.0150	839.00	.1110	.9050-01	.1010	.2710-02	.2210-02	.2466-02	1.518	12.07	581.7
232	32.000	1.0300	840.00	.2973	.2424	.2705	.7257-02	.5916-02	.6602-02	4.064	31.18	581.7
232	32.000	1.0450	841.00	.3491	.2845	.3175	.8521-02	.6944-02	.7750-02	4.759	35.84	583.3
232	32.000	1.0600	842.00	.2829	.2309	.2575	.6905-02	.5535-02	.6285-02	3.889	31.53	578.6
232	45.000	.92500	959.00	.2180-01	.1800-01	.2180-01	.5310-03	.4383-03	.5310-03	.3190	2.370	541.4
232	45.000	.95000	973.00	.1500-02	.1300-02	.1500-02	.3745-04	.3093-04	.3745-04	.2300-01	.1630	539.2
232	45.000	.97500	978.00	.1200-02	.1000-02	.1200-02	.2812-04	.2323-04	.2812-04	.1700-01	.1260	538.6
232	75.000	.97500	977.00	.3000-03	.3000-03	.3000-03	.8188-05	.6765-05	.8188-05	.5000-02	.3700-01	538.6
232	85.000	.97500	975.00	.4000-03	.3000-03	.4000-03	.9234-05	.7630-05	.9234-05	.6000-02	.4100-01	538.4
232	180.00	.10000-01	59.000	.1037	.8970-01	.1087	.2654-02	.2189-02	.2654-02	1.583	11.75	545.3
232	180.00	.25000-01	60.000	.2810-01	.2300-01	.2810-01	.6052-03	.5657-03	.6052-03	.4120	2.962	541.2
232	180.00	.50000-01	61.000	.1410-01	.1160-01	.1410-01	.3435-03	.2837-03	.3435-03	.2070	1.317	540.4
232	180.00	.75000-01	62.000	.1110-01	.9200-02	.1110-01	.2709-03	.2237-03	.2709-03	.1630	1.039	540.4
232	180.00	.10000-00	63.000	.1610-01	.1330-01	.1610-01	.3923-03	.3239-03	.3923-03	.2360	1.548	540.7
232	180.00	.12500	64.000	.2150-01	.1780-01	.2150-01	.5253-03	.4337-03	.5253-03	.3160	2.201	540.9
232	180.00	.15000	65.000	.3270-01	.2700-01	.3270-01	.7984-03	.6591-03	.7984-03	.4790	3.343	541.3
232	180.00	.16000	66.000	.8120-01	.6700-01	.8120-01	.1982-02	.1635-02	.1982-02	1.183	6.589	544.8
232	180.00	.17000	67.000	.9710-01	.8010-01	.9710-01	.2371-02	.1955-02	.2371-02	1.414	7.871	545.3
232	180.00	.20000	69.000	.1390-01	.1630-01	.1980-01	.4832-03	.3990-03	.4832-03	.2910	1.803	540.1
232	180.00	.40100	72.000	.4300-02	.3000-02	.4300-02	.1046-03	.8644-04	.1046-03	.6300-01	.5370	538.8
232	180.00	.50000	73.000	.4000-02	.3300-02	.4000-02	.9764-04	.8066-04	.9764-04	.5900-01	.5010	539.3
232	180.00	.60100	74.000	.5000-02	.4100-02	.5000-02	.1213-03	.1002-03	.1213-03	.7300-01	.6020	539.2
232	180.00	.70100	75.000	.3300-02	.2700-02	.3300-02	.8074-04	.6671-04	.8074-04	.4900-01	.3890	538.4

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OH-498 (AEDC V41B-57A) OF8 TER FUSELAGE

FUSELAGE

PAPAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = 15.00 MACH = 8.0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 <sup>6</sup> /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PC PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
219	8.000	3.760	40.09	.0000	180.0	858.4	.8800-01	1338.	97.00	3.939	3861.	.7606-04
220	8.000	3.773	40.10	.0000	180.0	861.0	.8800-01	1338.	97.00	3.951	3860.	.7630-04

RUN NUMBER	MU	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
219	.7809-07	.4899-01	0.0175
220	.7807-07	.4906-01	.2096-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(1AH) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TH DEG. R
219	.00000	.00000	1.0000	.5979	.4908	.5340	.2929-01	.2405-01	.2616-01	17.98	97.80	590.9
219	.00000	.50000-02	2.0000	.6976	.5690	.5590	.3417-01	.2788-01	.2788-01	20.24	136.3	612.2
219	.00000	.10000-01	3.0000	.6287	.5143	.5203	.3080-01	.2519-01	.2549-01	18.53	121.4	603.1
219	.00000	.20000-01	4.0000	.4336	.3578	.3719	.2124-01	.1753-01	.1822-01	13.43	73.75	572.3
219	.00000	.30000-01	5.0000	.3348	.2769	.2822	.1640-01	.1356-01	.1432-01	10.50	57.86	564.6
219	.00000	.40000-01	6.0000	.2850	.2360	.2517	.1396-01	.1156-01	.1233-01	9.007	49.77	559.5
219	.00000	.50000-01	7.0000	.2755	.2272	.2447	.1349-01	.113-01	.1199-01	8.498	56.49	574.9
219	.00000	.60000-01	8.0000	.2830	.2338	.2533	.1366-01	.1145-01	.1241-01	8.805	55.33	569.5
219	.00000	.70000-01	9.0000	.2503	.2065	.2253	.1226-01	.1011-01	.1104-01	7.723	52.95	574.8
219	.00000	.80000-01	10.000	.2001	.1654	.1812	.9804-02	.8101-02	.8976-02	6.241	42.93	568.0
219	.00000	.90000-01	11.000	.1879	.1555	.1709	.9204-02	.7617-02	.8370-02	5.913	37.30	562.2
219	.00000	.10000*00	12.000	.1750	.1448	.1597	.8575-02	.7095-02	.7825-02	5.504	32.83	562.8
219	.00000	.12000	14.000	.1620	.1343	.1487	.7939-02	.6578-02	.7284-02	5.139	28.43	557.3
219	.00000	.13000	15.000	.1531	.1268	.1407	.7493-02	.6211-02	.6890-02	4.839	28.16	559.3
219	.00000	.14000	16.000	.1424	.1179	.1310	.6978-02	.5777-02	.6418-02	4.492	28.36	560.8
219	.00000	.16000	18.000	.1523	.1260	.1403	.7463-02	.6172-02	.6875-02	4.777	29.26	564.5
219	.00000	.17200	19.000	.1491	.1232	.1375	.7304-02	.6037-02	.6735-02	4.660	29.33	566.6
219	.00000	.18000	20.000	.1467	.1212	.1353	.7165-02	.5937-02	.6630-02	4.574	28.77	567.9
219	.00000	.19000	21.000	.1445	.1195	.1336	.7078-02	.5855-02	.6543-02	4.535	28.58	563.9

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
219	.00000	.20000	22.000	.1441	.1191	.1333	.7061-02	.5835-02	.6532-02	4.497	28.28	567.8
219	.00000	.22500	23.000	.1315	.1087	.1220	.6443-02	.5326-02	.5976-02	4.112	25.88	566.5
219	.00000	.25000	801.00	.1297	.1072	.1205	.6354-02	.5250-02	.5903-02	4.046	25.44	567.9
219	.00000	.30000	802.00	.1214	.1003	.1128	.5948-02	.4912-02	.5524-02	3.774	23.71	570.1
219	.00000	.35000	803.00	.1233	.1096	.1234	.6515-02	.5369-02	.6046-02	4.086	25.58	577.4
219	.00000	.40000	804.00	.1223	.1008	.1135	.5993-02	.4937-02	.5550-02	3.750	24.15	578.8
219	.00000	.45000	805.00	.1109	.9130-01	.1028	.5432-02	.4472-02	.5038-02	3.384	22.42	581.7
219	.00000	.50000	806.00	.1056	.8680-01	.9790-01	.5171-02	.4253-02	.4795-02	3.208	21.88	584.3
219	.00000	.55000	807.00	.1090	.8950-01	.1010	.5339-02	.4383-02	.4946-02	3.276	23.77	590.9
219	.00000	.60000	808.00	.1320	.1083	.1223	.6468-02	.5306-02	.5990-02	3.952	28.63	593.6
219	.00000	.65000	809.00	.2084	.1701	.1926	.1021-01	.8332-02	.9435-02	6.071	43.63	609.9
219	.00000	.70000	810.00	.3118	.2532	.2876	.1527-01	.1241-01	.1409-01	8.844	65.26	625.5
219	.00000	.75000	811.00	.3601	.2921	.3320	.1764-01	.1431-01	.1626-01	10.14	72.21	629.5
219	.00000	.80000	812.00	.3518	.2935	.3335	.1772-01	.1438-01	.1634-01	10.18	72.48	630.8
219	.00000	.85000	813.00	.3416	.2770	.3186	.1673-01	.1357-01	.1561-01	9.602	70.66	624.2
219	.00000	.90000	814.00	.3276	.2662	.3065	.1605-01	.1304-01	.1501-01	9.316	64.35	618.0
219	.00000	.92500	815.00	.2843	.2315	.2669	.1393-01	.1134-01	.1307-01	8.170	64.99	626.1
219	.00000	.95000	816.00	.2851	.2324	.2691	.1402-01	.1138-01	.1319-01	8.109	64.25	634.2
219	.00000	.97500	817.00	.3057	.2476	.2881	.1497-01	.1213-01	.1411-01	8.541	67.41	656.2
219	.00000	1.0150	818.00	.4759	.3934	.4500	.2336-01	.1878-01	.2205-01	12.81	90.05	647.1
219	.00000	1.0300	819.00	.4400	.3548	.4156	.2156-01	.1625-01	.2036-01	12.02	84.84	659.0
219	.00000	1.0450	820.00	.4132	.3318	.3898	.2024-01	.1625-01	.1909-01	11.04	83.04	652.7
219	.00000	1.0600	821.00	.3387	.2726	.3197	.1659-01	.1335-01	.1566-01	9.158	72.98	535.9
219	.00000	1.0800	822.00	.5300-02	.4500-02	.5300-02	.2620-03	.2183-03	.2620-03	1.750	1.059	537.7
219	.00000	1.1000	823.00	.7500-02	.6300-02	.7500-02	.3698-03	.3080-03	.3698-03	2.470	1.531	536.8
219	.00000	1.1111	824.00	.9100-02	.7600-02	.9100-02	.4472-03	.3726-03	.4472-03	2.990	1.805	589.0
219	.00000	1.1300	825.00	.9120-01	.9120-01	.1029	.5441-02	.4469-02	.5042-02	3.350	26.16	595.6
219	.00000	1.1500	826.00	.8680-01	.8680-01	.9800-01	.5187-02	.4253-02	.4803-02	3.159	24.50	599.4
219	.00000	1.1750	827.00	.9790-01	.8020-01	.9060-01	.4795-02	.3928-02	.4439-02	2.903	25.16	631.1
219	.00000	1.2000	828.00	.3659	.2957	.3372	.1792-01	.1453-01	.1652-01	10.28	73.13	627.7
219	.00000	1.2250	829.00	.3528	.2654	.3253	.1728-01	.1403-01	.1594-01	9.971	71.04	623.8
219	.00000	1.2500	830.00	.2898	.2356	.2712	.1420-01	.1154-01	.1328-01	8.247	63.08	602.3
219	.00000	1.2750	831.00	.1840	.1505	.1940	.9012-02	.7374-02	.9012-02	5.428	39.16	615.1
219	.00000	1.3000	832.00	.2493	.2032	.2493	.1221-01	.9953-02	.1221-01	7.199	51.61	610.3
219	.00000	1.3250	833.00	.2275	.1857	.2275	.1115-01	.9097-02	.1115-01	6.623	47.59	538.1
219	.00000	1.3500	834.00	.1260-01	.1050-01	.1260-01	.6185-03	.5151-03	.6185-03	4.120	2.559	585.7
219	.00000	1.3750	835.00	.1442	.1186	.1442	.7064-02	.5808-02	.7064-02	3.180	31.80	601.9
219	.00000	1.4000	836.00	.2002	.1633	.2002	.5910-02	.6027-02	.5910-02	5.913	42.66	569.2
219	.00000	1.4250	837.00	.1162	.9600-01	.1162	.5693-02	.4703-02	.5693-02	3.618	26.53	581.2
219	.00000	1.4500	838.00	.1358	.1118	.1259	.6551-02	.5476-02	.6169-02	4.146	28.33	592.9
219	.00000	1.4750	839.00	.097	.9000-01	.1016	.5372-02	.4408-02	.4976-02	3.286	23.04	600.6
219	.00000	1.5000	840.00	.1303	.1066	.1205	.6382-02	.5224-02	.5905-02	3.855	25.30	615.1
219	.00000	1.5250	841.00	.2019	.1645	.1864	.9888-02	.8059-02	.9134-02	5.830	43.23	

REPRODUCIBILITY OF THIS  
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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PU# NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(14) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
219	32.000	.80000	835.00	.3263	.2651	.3010	.1558-01	.1299-01	.1475-01	9.278	64.08	624.2
219	32.000	.95000	835.00	.2959	.2416	.2779	.1455-01	.1183-01	.1361-01	8.493	60.71	620.8
219	32.000	.95000	837.00	.2922	.2381	.2751	.1432-01	.1166-01	.1348-01	8.420	62.40	616.4
219	32.000	.97500	838.00	.2979	.2419	.2810	.1463-01	.1185-01	.1377-01	8.437	64.44	626.5
219	32.000	1.0150	839.00	.4863	.3868	.4370	.2382-01	.1895-01	.2141-01	12.39	93.72	684.5
219	32.000	1.0300	840.00	.4301	.3449	.3880	.2107-01	.1690-01	.1901-01	11.42	84.21	662.6
219	32.000	1.0450	841.00	.4318	.3465	.3897	.2115-01	.1697-01	.1909-01	11.49	83.36	661.2
219	32.000	1.0600	842.00	.3328	.2685	.3012	.1630-01	.1315-01	.1475-01	9.107	71.45	646.1
219	45.000	.92500	959.00	.3820-01	.3170-01	.3820-01	.1872-02	.1555-02	.1872-02	1.229	9.103	548.3
219	45.000	.95000	973.00	.2800-02	.2300-02	.2800-02	.1348-03	.1122-03	.1348-03	.8900-01	.6660	540.6
219	45.000	.97500	979.00	.1300-02	.1600-02	.1900-03	.9504-04	.7910-04	.9504-04	.6300-01	.4700	540.0
219	75.000	.97500	977.00	.1000-03	.1000-03	.1000-03	.6917-05	.5758-05	.6917-05	.5000-02	.3400-01	540.0
219	85.000	.97500	976.00	.8000-03	.7000-03	.8000-03	.5952-04	.5250-04	.5952-04	.2600-01	.1950	540.0
219	180.00	.10000-01	59.000	.9980-01	.8300-01	.9980-01	.4889-02	.4065-02	.4889-02	3.225	23.94	544.9
219	180.00	.25000-01	60.000	.2450-01	.2040-01	.2450-01	.1201-02	.1001-02	.1201-02	.8020	5.781	537.3
219	180.00	.50000-01	61.000	.1320-01	.1100-01	.1320-01	.3462-03	.5383-03	.3462-03	.4320	2.779	536.4
219	180.00	.75000-01	62.000	.1470-01	.1220-01	.1470-01	.7184-03	.5984-03	.7184-03	.4790	3.060	537.6
219	180.00	.10000+00	63.000	.2490-01	.2070-01	.2490-01	.1220-02	.1016-02	.1220-02	.8120	5.332	539.3
219	190.00	.12500	64.000	.2930-01	.2490-01	.2930-01	.1464-02	.1219-02	.1464-02	.9720	6.779	540.7
219	180.00	.15000	65.000	.3430-01	.2910-01	.3430-01	.1712-02	.1424-02	.1712-02	1.135	7.911	541.7
219	180.00	.10000	66.000	.6820-01	.7330-01	.6820-01	.4323-02	.3589-02	.4323-02	2.831	15.72	549.7
219	180.00	.17000	67.000	.1192	.9690-01	.1192	.5838-02	.4846-02	.5838-02	3.815	21.17	551.2
219	180.00	.20000	69.000	.1690-01	.1400-01	.1690-01	.8256-03	.6873-03	.8256-03	.5490	3.405	539.6
219	180.00	.40100	72.000	.6400-02	.5300-02	.6400-02	.3113-03	.2591-03	.3113-03	.2070	1.761	539.7
219	180.00	.50000	73.000	.8400-02	.7000-02	.8400-02	.4122-03	.3431-03	.4122-03	.2740	2.330	540.1
219	180.00	.60100	74.000	.7400-02	.6100-02	.7400-02	.3614-03	.3007-03	.3614-03	.2400	1.974	540.8
219	180.00	.70100	75.000	.4900-02	.4100-02	.4900-02	.2397-03	.1996-03	.2397-03	.1590	.1272	539.5

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## FUSELAGE

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = 22.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHC SLUGS /FT3
240	7.900	.5413	19.98	.0000	180.0	109.4	.1200-01	1263.	93.70	.5310	3746.	.1090-04
241	7.900	.5462	19.98	.0000	180.0	110.3	.1200-01	1262.	93.60	.5360	3745.	.1099-04

RUN NUMBER	MU	LB-SEC /FT2	ST FP R =
240	.7540-07	.1781-01	0.0175
241	.7536-07	.1788-01	.5506-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1ST0 BTU/ R FT2SEC	H1T0 BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
240	.00000	.00000	1.0000	.8907	.7274	.7440	.1586-01	.1296-01	.1325-01	8.921	48.95	574.0
240	.00000	.50000-02	2.0000	.7432	.6073	.6212	.1324-01	.1082-01	.1106-01	7.465	51.23	572.5
240	.00000	.10000-01	3.0000	.6134	.5031	.5363	.1032-01	.8960-02	.9553-02	6.293	42.13	560.4
240	.00000	.20000-01	4.0000	.2427	.2001	.2234	.4322-02	.3564-02	.3979-02	2.564	14.28	543.2
240	.00000	.30000-01	5.0000	.2323	.1916	.2188	.4137-02	.3412-02	.3897-02	2.459	13.71	542.0
240	.00000	.40000-01	6.0000	.1836	.1515	.1755	.3270-02	.2699-02	.3126-02	1.952	10.90	539.5
240	.00000	.50000-01	7.0000	.1694	.1397	.1636	.3017-02	.2487-02	.2914-02	1.789	12.08	543.3
240	.00000	.60000-01	8.0000	.1659	.1369	.1615	.2955-02	.2438-02	.2876-02	1.758	11.21	541.4
240	.00000	.70000-01	9.0000	.1365	.1126	.1338	.2431-02	.2005-02	.2383-02	1.445	10.07	541.9
240	.00000	.80000-01	10.000	.1106	.9130-01	.1091	.1971-02	.1626-02	.1943-02	1.175	8.199	540.0
240	.00000	.90000-01	11.000	.9830-01	.8120-01	.9730-01	.1751-02	.1446-02	.1733-02	1.046	6.675	539.0
240	.00000	.10000-00	12.000	.8590-01	.7090-01	.8540-01	.1530-02	.1263-02	.1521-02	.9150	5.526	538.3
240	.00000	.14.000	14.000	.8300-01	.6610-01	.7990-01	.1426-02	.1178-02	.1424-02	.8550	4.778	536.8
240	.00000	.13000	15.000	.7310-01	.6040-01	.7310-01	.1302-02	.1075-02	.1303-02	.7800	4.590	537.2
240	.00000	.14000	16.000	.6540-01	.5400-01	.6550-01	.1165-02	.9621-03	.1167-02	.6980	4.455	537.5
240	.00000	.16000	18.000	.6310-01	.5210-01	.6330-01	.1124-02	.9279-03	.1128-02	.6730	4.176	537.7
240	.00000	.17000	19.000	.6260-01	.5170-01	.6290-01	.1114-02	.9200-03	.1120-02	.6670	4.256	538.1
240	.00000	.18000	20.000	.5990-01	.4940-01	.6020-01	.1066-02	.8803-03	.1072-02	.6380	4.073	538.0
240	.00000	.19000	21.000	.6070-01	.5010-01	.6110-01	.1081-02	.8931-03	.1089-02	.6490	4.146	536.3

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PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/R FT2SEC	H(1TO) BTU/R FT2SEC	H(1TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
240	.00000	.20000	22.000	.6010-01	.4960-01	.6060-01	.1071-02	.8839-03	.1080-02	.6400	4.087	538.3
240	.00000	.22500	23.000	.5570-01	.4600-01	.5630-01	.9926-03	.8195-03	.1004-02	.5930	3.787	538.7
240	.00000	.25000	801.00	.5260-01	.4340-01	.5320-01	.9364-03	.7731-03	.9483-03	.5600	3.572	538.7
240	.00000	.30000	802.00	.4910-01	.4050-01	.4970-01	.8740-03	.7215-03	.8851-03	.5220	3.332	539.0
240	.00000	.35000	803.00	.4880-01	.4030-01	.4940-01	.8690-03	.7172-03	.8800-03	.5180	3.305	539.9
240	.00000	.40000	804.00	.4740-01	.3910-01	.4800-01	.8448-03	.6972-03	.8556-03	.5040	3.307	540.1
240	.00000	.45000	805.00	.4560-01	.3770-01	.4620-01	.8130-03	.6708-03	.8233-03	.4840	3.273	540.9
240	.00000	.50000	806.00	.3930-01	.3250-01	.3980-01	.7008-03	.5781-03	.7097-03	.4170	2.908	541.2
240	.00000	.55000	807.00	.3660-01	.3020-01	.3710-01	.6524-03	.5381-03	.6608-03	.3880	2.682	542.1
240	.00000	.60000	808.00	.3300-01	.2720-01	.3340-01	.5869-03	.4841-03	.5944-03	.3490	2.594	541.8
240	.00000	.65000	809.00	.3260-01	.2680-01	.3300-01	.5798-03	.4782-03	.5872-03	.3440	2.559	542.6
240	.00000	.70000	810.00	.2960-01	.2440-01	.3000-01	.5279-03	.4630-03	.5346-03	.3140	2.412	542.2
240	.00000	.75000	811.00	.3150-01	.2600-01	.3190-01	.5614-03	.4354-03	.5685-03	.3340	2.480	542.1
240	.00000	.80000	812.00	.2910-01	.2400-01	.2940-01	.5178-03	.4272-03	.5244-03	.3080	2.290	541.5
240	.00000	.85000	813.00	.3030-01	.2500-01	.3100-01	.5405-03	.4459-03	.5529-03	.3220	2.476	540.9
240	.00000	.90000	814.00	.2450-01	.2020-01	.2510-01	.4360-03	.3598-03	.4469-03	.2600	1.873	539.9
240	.00000	.92500	815.00	.1090-01	.9000-02	.1120-01	.1949-03	.1609-03	.2002-03	.1170	.9640	538.4
240	.00000	.95000	816.00	.9500-02	.7800-02	.9800-02	.1691-03	.1397-03	.1741-03	.1010	.8370	538.4
240	.00000	.97500	817.00	.1460-01	.1210-01	.1510-01	.2606-03	.2152-03	.2689-03	.1560	1.290	538.4
240	.00000	1.01500	818.00	.1050-01	.8700-02	.1090-01	.1871-03	.1544-03	.1936-03	.1120	.8300	540.5
240	.00000	1.03000	819.00	.3600-01	.2970-01	.3730-01	.6419-03	.5292-03	.6842-03	.3810	2.828	543.3
240	.00000	1.06000	821.00	.8920-01	.7350-01	.9240-01	.1589-02	.1309-02	.1645-02	.9350	7.849	547.8
240	.00000	1.15000	89.000	.1800-01	.1490-01	.1800-01	.3207-03	.2651-03	.3207-03	.1930	1.166	535.2
240	.00000	1.50000	91.000	.2790-01	.2310-01	.2790-01	.4973-03	.4109-03	.4973-03	.2990	1.857	535.6
240	.00000	2.00000	90.000	.1270-01	.1050-01	.1270-01	.2259-03	.1868-03	.2259-03	.1360	.8260	532.9
240	.00000	4.00000	823.00	.4950-01	.4080-01	.5010-01	.8812-03	.7269-03	.8923-03	.5240	4.174	541.7
240	.00000	5.00000	824.00	.4650-01	.3870-01	.4750-01	.8362-03	.6893-03	.8469-03	.4960	3.943	543.7
240	.00000	6.00000	825.00	.3310-01	.2730-01	.3350-01	.5899-03	.4863-03	.5974-03	.3500	3.118	543.4
240	.00000	7.00000	826.00	.3530-01	.2910-01	.3580-01	.6296-03	.5190-03	.6377-03	.3730	2.771	543.8
240	.00000	8.00000	827.00	.3390-01	.2800-01	.3440-01	.6043-03	.4984-03	.6120-03	.3590	2.670	541.9
240	.00000	9.00000	828.00	.2630-01	.2170-01	.2690-01	.4682-03	.3864-03	.4798-03	.2790	2.226	540.0
240	.00000	971.00	975.00	.1500-01	.1240-01	.1500-01	.2667-03	.2203-03	.2657-03	.1600	1.190	537.4
240	.00000	95000	975.00	.2190-01	.1810-01	.2190-01	.3998-03	.3218-03	.3898-03	.2330	1.733	539.0
240	.00000	97500	980.00	.9500-02	.7900-02	.9500-02	.1698-03	.1402-03	.1698-03	.1020	.7580	537.1
240	.00000	2.00000	93.000	.3110-01	.2570-01	.3110-01	.5547-03	.4584-03	.5547-03	.3330	2.072	535.5
240	.00000	92500	970.00	.8500-02	.7000-02	.8500-02	.1512-03	.1249-03	.1512-03	.9100-01	.6770	535.9
240	.00000	95000	974.00	.1260-01	.1060-01	.1290-01	.2294-03	.1895-03	.2294-03	.1380	1.026	536.3
240	.00000	4.00000	.83100+10	.7010-01	.5790-01	.7100-01	.1249-02	.1030-02	.1265-02	.7430	5.174	542.1
240	.00000	5.00000	832.00	.6020-01	.4960-01	.6100-01	.1072-02	.8837-03	.1086-02	.6350	4.564	543.9
240	.00000	6.00000	833.00	.5260-01	.4340-01	.5330-01	.9375-03	.7727-03	.9495-03	.5550	3.745	544.5
240	.00000	7.00000	834.00	.3760-01	.2910-01	.3810-01	.6696-03	.5517-03	.6782-03	.3960	3.038	545.4
240	.00000	8.00000	835.00	.3380-01	.2790-01	.3420-01	.6021-03	.4966-03	.6097-03	.3580	2.575	541.8
240	.00000	9.00000	836.00	.2880-01	.2380-01	.2950-01	.5126-03	.4231-03	.5254-03	.3060	2.276	539.8

(RV1816)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
240	32.000	.95000	837.00	.1330-01	.1100-01	.1370-01	.2369-03	.1956-03	.2439-03	.1420	1.091	538.4
240	32.000	.97500	838.00	.5000-03	.4000-03	.5000-03	.8365-05	.6911-05	.8631-05	.5000-02	.5000-01	536.1
240	32.000	1.0150	839.00	.9000-02	.7400-02	.9000-02	.1598-03	.1320-03	.1595-03	.9500-01	.7790	536.8
240	32.000	1.0300	840.00	.4580-01	.3780-01	.4580-01	.8165-03	.6728-03	.8149-03	.4820	3.768	545.5
240	32.000	1.0450	841.00	.8950-01	.7370-01	.8940-01	.1595-02	.313-02	.1592-02	.9370	7.180	548.9
240	32.000	1.0500	842.00	.1169	.9620-01	.1167	.2082-02	.1714-02	.2078-02	1.222	10.05	549.7
240	45.000	.95000	973.00	.1000-03	.1000-03	.1000-03	.2052-05	.1696-05	.2052-05	.1000-02	.9000-02	534.5
240	45.000	.97500	978.00	.2000-03	.2000-03	.2000-03	.4156-05	.3436-05	.4156-05	.3000-02	.1900-01	534.2
240	75.000	.97500	977.00	.7000-03	.6000-03	.7000-03	.1228-04	.1015-04	.1228-04	.7000-02	.5500-01	534.4
240	85.000	.97500	976.00	.3800-02	.3100-02	.3800-02	.6759-04	.5587-04	.6759-04	.4100-01	.3030	534.9
240	180.00	.10000-01	53.000	.2862	.2357	.2862	.5098-02	.4199-02	.5098-02	3.005	22.29	546.9
240	180.00	.25000-01	60.000	.9630-01	.7950-01	.9630-01	.1715-02	.1416-02	.1715-02	1.027	7.407	537.4
240	180.00	.50000-01	61.000	.4700-01	.3830-01	.4700-01	.8376-03	.6924-03	.8376-03	.5040	3.224	534.5
240	180.00	.75000-01	62.000	.2450-01	.2020-01	.2450-01	.4359-03	.3634-03	.4359-03	.2630	1.680	534.1
240	180.00	.10000+00	63.000	.1530-01	.1270-01	.1530-01	.2726-03	.2254-03	.2726-03	.1640	1.081	534.1
240	180.00	.12500	64.000	.1130-01	.9300-02	.1130-01	.2012-03	.1663-03	.2012-03	.1210	.8470	534.3
240	180.00	.15000	65.000	.7100-02	.5900-02	.7100-02	.1269-03	.1049-03	.1269-03	.7600-01	.5350	534.1
240	180.00	.16000	66.000	.1700-01	.1400-01	.1700-01	.3022-03	.2498-03	.3022-03	.1820	1.016	535.6
240	180.00	.17000	67.000	.5840-01	.4910-01	.5840-01	.1058-02	.8739-03	.1058-02	.6330	3.536	538.3
240	180.00	.20000	69.000	.2000-01	.1650-01	.2000-01	.3563-03	.2944-03	.3563-03	.2140	1.329	535.9
240	180.00	.40100	72.000	.5900-02	.4800-02	.5900-02	.1042-03	.8614-04	.1042-03	.6300-01	.5340	535.4
240	180.00	.50000	73.000	.7400-02	.6100-02	.7400-02	.1323-03	.1093-03	.1323-03	.7900-01	.6770	536.2
240	180.00	.60100	74.000	.8300-02	.6900-02	.8300-02	.1480-03	.1223-03	.1480-03	.8900-01	.7330	536.0
240	180.00	.70100	75.000	.7700-02	.6300-02	.7700-02	.1364-03	.1127-03	.1364-03	.8200-01	.6550	535.4

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



AEDC VKI V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

FUSELAGE

PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPDRBK = .0000  
BDFLAP = 22.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

PUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q BTU/ R FT2SEC	V FT/SEC	RHO SLUGS /FT3
234	7.940	1.013	19.97	.0000	180.0	209.9	.2300-01	1272.	93.50	.9960	3761.	.2026-04
235	7.940	1.021	19.97	.0000	180.0	211.7	.2300-01	1272.	93.50	1.005	3762.	.2043-04

\*\*\*TEST DATA\*\*\*

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
234	.00000	.00000	1.0000	.9051	.7339	.7512	.2210-01	.1792-01	.1834-01	12.05	65.31	599.3
234	.00000	.50000-02	2.0000	.7370	.5980	.6122	1800-01	.1480-01	.1495-01	9.849	66.77	597.4
234	.00000	.10000-01	3.0000	.5613	.4579	.4890	.1371-01	.1118-01	.1194-01	7.721	51.16	581.4
234	.00000	.20000-01	4.0000	.3108	.2554	.2858	.7590-02	.6236-02	.6978-02	4.447	24.59	558.8
234	.00000	.30000-01	5.0000	.2312	.1903	.2177	.5647-02	.4646-02	.5315-02	3.335	18.48	554.1
234	.00000	.40000-01	6.0000	.1821	.1499	.1740	.4447-02	.3661-02	.4248-02	2.634	14.61	552.5
234	.00000	.50000-01	7.0000	.1553	.1367	.1605	.4060-02	.3337-02	.3919-02	2.385	15.99	557.4
234	.00000	.60000-01	8.0000	.1625	.1337	.1581	.3968-02	.3284-02	.3860-02	2.341	14.82	554.8
234	.00000	.70000-01	9.0000	.1339	.1101	.1312	.3269-02	.2658-02	.3204-02	1.926	13.34	555.3
234	.00000	.80000-01	10.000	.1094	.9000-01	.1078	.2671-02	.2198-02	.2633-02	1.580	10.95	553.0
234	.00000	.90000-01	11.000	.1002	.8250-01	.9310-01	.2446-02	.2015-02	.2421-02	1.453	9.219	550.6
234	.00000	.10000+00	12.000	.6990-01	.7400-01	.8930-01	.2195-02	.1808-02	.2182-02	1.303	7.819	551.1
234	.00000	.12000	14.000	.7730-01	.6370-01	.7730-01	.1689-02	.1557-02	.1887-02	1.126	6.257	548.5
234	.00000	.13000	15.000	.7190-01	.5930-01	.7500-01	.1756-02	.1447-02	.1757-02	1.046	6.118	549.1
234	.00000	.14000	16.000	.6420-01	.5290-01	.6430-01	.1567-02	.1291-02	.1570-02	.9330	5.924	549.1
234	.00000	.16000	18.000	.6300-01	.5190-01	.6320-01	.1538-02	.1267-02	.1544-02	.9160	5.651	549.3
234	.00000	.17000	19.000	.6470-01	.5330-01	.6500-01	.1579-02	.1301-02	.1587-02	.9400	5.964	549.6
234	.00000	.18000	20.000	.6400-01	.5270-01	.6440-01	.1562-02	.1287-02	.1572-02	.9300	5.900	549.8
234	.00000	.19000	21.000	.5770-01	.4750-01	.5810-01	.1408-02	.1161-02	.1418-02	.8400	5.335	548.1

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1816)

OH 49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(19TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QOOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
234	.00000	.20000	22.000	.6020-01	.4960-01	.6080-01	.1471-02	.1212-02	.1484-02	.8760	5.559	549.4
234	.00000	.22500	23.000	.5350-01	.4410-01	.5410-01	.1307-02	.1077-02	.1322-02	.7790	4.947	548.8
234	.00000	.25000	201.00	.4650-01	.4260-01	.5240-01	.1263-02	.1041-02	.1279-02	.7530	4.780	548.6
234	.00000	.30000	602.00	.4650-01	.3830-01	.4710-01	.1135-02	.0930-03	.1150-02	.6770	4.298	548.8
234	.00000	.35000	803.00	.4950-01	.4080-01	.5020-01	.1211-02	.0973-03	.1226-02	.7200	4.568	550.1
234	.00000	.40000	804.00	.4590-01	.3780-01	.4650-01	.1121-02	.0921-03	.1135-02	.6660	4.352	550.2
234	.00000	.45000	805.00	.4390-01	.3610-01	.4450-01	.1072-02	.0826-03	.1085-02	.6360	4.276	551.5
234	.00000	.50000	806.00	.3790-01	.3120-01	.3840-01	.0926-03	.0768-03	.0936-03	.5490	3.807	552.1
234	.00000	.55000	807.00	.3570-01	.2940-01	.3620-01	.0825-03	.0718-03	.0838-03	.5160	3.815	553.1
234	.00000	.60000	808.00	.3200-01	.2640-01	.3250-01	.0724-03	.0643-03	.0725-03	.4630	3.422	553.0
234	.00000	.65000	809.00	.3000-01	.2450-01	.3030-01	.0734-03	.0618-03	.0740-03	.4320	3.192	554.0
234	.00000	.70000	810.00	.2900-01	.2390-01	.2940-01	.0702-03	.0585-03	.0718-03	.4190	3.205	553.6
234	.00000	.75000	811.00	.3070-01	.2520-01	.3110-01	.0748-03	.0613-03	.0745-03	.4430	3.275	553.0
234	.00000	.80000	812.00	.3010-01	.2460-01	.3050-01	.0736-03	.0605-03	.0745-03	.4360	3.224	552.3
234	.00000	.85000	813.00	.2830-01	.2380-01	.2960-01	.0704-03	.0589-03	.0718-03	.4190	3.206	551.0
234	.00000	.90000	814.00	.2210-01	.1820-01	.2260-01	.0591-03	.0443-03	.0527-03	.3210	2.303	548.8
234	.00000	.92500	815.00	.8600-02	.7100-02	.8800-02	.2092-03	.1725-03	.2150-03	.1250	1.030	547.1
234	.00000	.95000	816.00	.1350-01	.1110-01	.1390-01	.0473-03	.0365-03	.0418-03	.1960	1.615	548.5
234	.00000	.97500	817.00	.1230-01	.1010-01	.1280-01	.0315-03	.0247-03	.0313-03	.1760	1.300	559.5
234	.00000	1.0150	818.00	.1230-01	.1010-01	.1280-01	.0315-03	.0247-03	.0313-03	.1760	1.300	559.5
234	.00000	1.0300	819.00	.6040-01	.4550-01	.6250-01	.1474-02	.1209-02	.1527-02	.8560	6.292	564.0
234	.00000	1.0600	821.00	.1698	.1368	.1760	.4146-02	.3389-02	.4298-02	2.360	19.53	575.5
234	.00000	1.5000	89.000	.1710-01	.1410-01	.1710-01	.4184-03	.3454-03	.4184-03	.2520	1.518	542.6
234	.00000	2.0000	91.000	.3220-01	.2650-01	.3220-01	.0856-03	.0646-03	.0856-03	.4730	2.930	542.5
234	.00000	5.0000-01	90.000	.3400-02	.2800-02	.3400-02	.0831-04	.0620-04	.0831-04	.5000-01	.3040	542.5
234	.00000	.40000	823.00	.5050-01	.4160-01	.5110-01	.1233-02	.1015-02	.1249-02	.7290	5.775	553.2
234	.00000	.50000	824.00	.4550-01	.3740-01	.4610-01	.1112-02	.0944-03	.1126-02	.6560	5.187	555.1
234	.00000	.60000	825.00	.3060-01	.2510-01	.3100-01	.0618-03	.0438-03	.0618-03	.4400	3.899	554.4
234	.00000	.70000	826.00	.3380-01	.3270-01	.4030-01	.0912-03	.0791-03	.0939-03	.5730	4.236	553.0
234	.00000	.80000	827.00	.3390-01	.2790-01	.3430-01	.0879-03	.0684-03	.0836-03	.4900	3.622	549.6
234	.00000	.90000	828.00	.2410-01	.1930-01	.2480-01	.0593-03	.0459-03	.0645-03	.3510	2.784	549.5
234	.00000	.92500	971.00	.2140-01	.1760-01	.2140-01	.0527-03	.0430-03	.0527-03	.3110	2.304	549.4
234	.00000	.95000	975.00	.2740-01	.2260-01	.2740-01	.0695-03	.0517-03	.0695-03	.3990	2.952	547.4
234	.00000	.97500	980.00	.9100-02	.7500-02	.9100-02	.2226-03	.1835-03	.2226-03	.1330	.9860	543.2
234	.00000	2.0000	93.000	.3490-01	.2880-01	.3490-01	.0828-03	.0704-03	.0828-03	.5130	3.176	546.0
234	.00000	.50000	970.00	.1460-01	.1200-01	.1460-01	.0564-03	.0453-03	.0564-03	.2130	1.583	545.9
234	.00000	.60000	974.00	.2010-01	.1660-01	.2010-01	.0491-03	.0393-03	.0491-03	.2940	2.183	543.7
234	.00000	.70000	979.00	.3020-01	.2490-01	.3020-01	.0737-03	.0604-03	.0737-03	.4430	3.290	553.7
234	.00000	.80000	983.00	.7030-01	.5790-01	.7130-01	.1718-02	.1413-02	.1740-02	1.015	7.033	555.8
234	.00000	.90000	832.00	.5790-01	.4760-01	.5860-01	.1163-02	.1163-02	.1432-02	.8330	5.948	556.3
234	.00000	.92500	833.00	.5320-01	.4380-01	.5390-01	.1300-02	.1069-02	.1317-02	.7650	5.130	558.1
234	.00000	.95000	834.00	.3820-01	.3140-01	.3870-01	.0937-03	.0767-03	.0945-03	.5480	4.178	553.2
234	.00000	.97500	835.00	.3490-01	.2870-01	.3530-01	.0811-03	.0705-03	.0821-03	.5030	3.601	553.2

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.5	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTADT DEG. R /SEC	TW DEG. R
234	32.000	.90000	835.00	.2760-01	.2280-01	.2830-31	.6748-03	.5560-03	.6918-03	.4020	2.973	549.7
234	32.000	.95000	837.00	.1140-01	.9400-02	.1170-31	.2781-03	.2293-03	.2865-03	.1660	1.273	547.9
234	32.000	.97500	838.00	.1090-01	.9000-02	.1120-31	.2660-03	.2193-03	.2746-03	.1590	1.259	548.6
234	32.000	1.0150	839.00	.6700-02	.5500-02	.6700-32	.1639-03	.1350-03	.1635-03	.9800-01	.7880	549.6
234	32.000	1.0300	840.00	.7600-01	.6230-01	.7580-31	.1855-02	.1521-02	.1852-02	1.074	8.303	565.9
234	32.000	1.0450	841.00	.1500	.1227	.1497	.3663-02	.2996-02	.3655-02	2.093	15.84	573.4
234	32.000	1.0600	842.00	.1765	.1445	.1763	.4314-02	.3528-02	.4305-02	2.464	20.04	573.4
234	45.000	.95000	973.00	.2000-03	.2000-03	.2000-33	.4651-05	.3842-05	.4651-05	.3000-02	.2100-01	540.5
234	45.000	.97500	978.00	.3000-02	.2400-02	.3000-32	.7212-04	.5958-04	.7212-04	.4400-01	.3240	540.4
234	75.000	.97500	977.00	.3200-02	.2600-02	.3200-32	.7716-04	.6374-04	.7716-04	.4700-01	.3470	540.5
234	85.000	.97500	976.00	.5500-02	.4600-02	.5500-32	.1348-03	.1113-03	.1348-03	.8100-01	.6060	540.8
234	180.00	.10000-01	59.000	.2838	.2330	.2838	.6931-02	.5689-02	.6931-02	4.038	29.72	562.1
234	180.00	.25000-01	60.000	.9240-01	.7620-01	.9240-31	.2257-02	.1861-02	.2257-02	1.347	9.658	548.1
234	180.00	.50000-01	61.000	.4500-01	.3710-01	.4500-31	.1099-02	.9067-03	.1099-02	.6600	4.198	544.4
234	180.00	.75000-01	62.000	.2400-01	.2050-01	.2400-31	.6058-03	.5001-03	.6058-03	.3640	2.320	543.2
234	180.00	.10000-00	63.000	.1430-01	.1230-01	.1430-31	.3633-03	.2999-03	.3633-03	.2190	1.433	543.0
234	180.00	.12500	64.000	.1040-01	.8600-02	.1040-31	.2535-03	.2092-03	.2535-03	.1530	1.063	542.8
234	180.00	.15000	65.000	.7900-02	.6500-02	.7900-32	.1931-03	.1594-03	.1931-03	.1160	.8120	541.6
234	180.00	.16000	66.000	.2430-01	.2020-01	.2430-31	.5975-03	.4933-03	.5975-03	.3590	2.003	543.1
234	180.00	.17000	67.000	.6700-01	.5530-01	.6700-31	.1636-02	.1349-02	.1636-02	.9790	5.448	546.2
234	180.00	.20000	69.000	.1930-01	.1600-01	.1930-31	.4718-03	.3896-03	.4718-03	.2840	1.761	542.3
234	180.00	.40100	72.000	.6000-02	.4900-02	.6000-32	.1461-03	.1206-03	.1461-03	.8800-01	.7500	541.0
234	180.00	.50000	73.000	.9700-02	.8000-02	.9700-32	.2358-03	.1947-03	.2358-03	.1420	1.210	541.2
234	180.00	.60100	74.000	.9500-02	.7900-02	.9500-32	.2322-03	.1918-03	.2322-03	.1400	1.153	541.3
234	180.00	.70100	75.000	.8000-02	.6600-02	.8000-32	.1948-03	.1609-03	.1948-03	.1180	.9380	540.4

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B16)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 20 00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
BOFLAP = 22 00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACP	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
221	8.000	3.765	19.95	0000	180.0	859.1	.8800-01	1338.	97.00	3.942	3860.	.7614-04
222	8.000	3.757	19.97	.0000	180.0	859.3	.8800-01	1340.	97.10	3.943	3863.	.7504-04

RUN NUMBER	YU	HREF BTU/ R FT2SEC	ST FR R =
221	7807-07	4901-01	0.0075
222	7818-07	4902-01	.2097-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
221	00000	.00000	1.0000	.9114	.7321	.7321	.4466-01	.3598-01	.3676-01	24.40	128.5	657.9
221	00000	.10000-02	2.0000	.7526	.6350	.6200	.3588-01	.2955-01	.3039-01	20.23	133.3	655.8
221	00000	.10000-01	3.0000	.5639	.4584	.4901	.2764-01	.2246-01	.2402-01	16.07	104.3	623.0
221	00000	.20000-01	4.0000	.3365	.2782	.3118	.1650-01	.1358-01	.1528-01	10.44	57.23	575.4
221	00000	.30000-01	5.0000	.2277	.1684	.2147	.1116-01	.0921-02	.1052-01	7.143	39.38	564.3
221	00000	.40000-01	6.0000	.1930	.1599	.1846	.8457-02	.7835-02	.9049-02	6.112	33.80	558.0
221	00000	.50000-01	7.0000	.1640	.1355	.1585	.8036-02	.6642-02	.7766-02	5.125	34.20	566.6
221	00000	.60000-01	8.0000	.1614	.1335	.1572	.7910-02	.6545-02	.7782-02	5.080	32.04	562.0
221	00000	.70000-01	9.0000	.1354	.1120	.1326	.6835-02	.5469-02	.6308-02	4.253	29.33	563.3
221	00000	.80000-01	10.000	.1020	.8950-01	.1066	.5294-02	.4365-02	.5232-02	3.425	23.68	557.4
221	00000	.90000-01	11.000	.9630-01	.7930-01	.9540-01	.4720-02	.3915-02	.4674-02	2.773	19.47	553.2
221	00000	.10000-00	12.000	.8640-01	.7170-01	.8580-01	.4232-02	.3512-02	.4207-02	2.750	16.55	552.2
221	00000	.12000	14.000	.7720-01	.6410-01	.7710-01	.3782-02	.3140-02	.3778-02	2.777	13.76	549.3
221	00000	.13000	15.000	.7500-01	.5640-01	.7150-01	.3504-02	.2909-02	.3506-02	2.292	13.10	550.1
221	00000	.14000	16.000	.6370-01	.5290-01	.6390-01	.3124-02	.2593-02	.3130-02	2.042	12.96	550.7
221	00000	.16000	18.000	.6360-01	.5280-01	.6390-01	.3117-02	.2585-02	.3129-02	2.033	12.53	552.0
221	00000	.17000	19.000	.6350-01	.5270-01	.6380-01	.3112-02	.2582-02	.3128-02	2.027	12.85	552.9
221	00000	.18000	20.000	.6210-01	.5150-01	.6240-01	.3042-02	.2523-02	.3060-02	1.980	12.55	553.2
221	00000	.19000	21.000	.5960-01	.4950-01	.6000-01	.2970-02	.2423-02	.2941-02	1.908	12.10	550.8

REPRODUCIBILITY OF THE  
ORIGINAL PAGE

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AEDC VKF V41B-57A (04-49B) C LATION DECK

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(RV1B16)

04-49B (AEDC V41B-57A) CRBITER FUSELAGE

FLY NUMBER	THETA	X/L	T/C NO	H/REF P=0.3	H/REF P=1.0	H/REF (T/W)	H(IGT) BTU/ R F12SEC	H(IGT) BTU/ F F12SEC	H(IGT) BTU/ F F12SEC	OOT BTU/ F12SEC	DTADT DEG. R /SEC	TW DEG. R
221	.00000	.20000	22.000	.5930-01	.4840-01	.5980-01	.2358-02	.2371-02	.2882-02	1.861	11.79	553.2
221	.00000	.22500	23.000	.5740-01	.4430-01	.5400-01	.2516-02	.2170-02	.2644-02	1.705	10.81	552.5
221	.00000	.25000	24.000	.5160-01	.4300-01	.5240-01	.2539-02	.2106-02	.2570-02	1.554	10.48	552.7
221	.00000	.30000	222.00	.4670-01	.3870-01	.4710-01	.2268-02	.1893-02	.2317-02	1.489	9.435	553.5
221	.00000	.35000	223.00	.4350-01	.3400-01	.4310-01	.2425-02	.2010-02	.2455-02	1.571	9.935	556.5
221	.00000	.40000	224.00	.4450-01	.3330-01	.4510-01	.2181-02	.1807-02	.2438-02	1.411	9.188	557.4
221	.00000	.45000	225.00	.4200-01	.3400-01	.4260-01	.2061-02	.1707-02	.2387-02	1.331	8.917	558.6
221	.00000	.50000	226.00	.3930-01	.3000-01	.3890-01	.1779-02	.1473-02	.1801-02	1.145	7.905	560.6
221	.00000	.55000	227.00	.3740-01	.2780-01	.3600-01	.1635-02	.1353-02	.1656-02	1.048	7.706	563.4
221	.00000	.60000	228.00	.3610-01	.2400-01	.3050-01	.1475-02	.1220-02	.1493-02	.9450	6.949	563.5
221	.00000	.65000	229.00	.3550-01	.2220-01	.2720-01	.1318-02	.1080-02	.1471-02	.8420	6.186	555.4
221	.00000	.70000	230.00	.3410-01	.2240-01	.2700-01	.1326-02	.1095-02	.1343-02	.8450	6.419	566.8
221	.00000	.75000	231.00	.3280-01	.2200-01	.2600-01	.1592-02	.1316-02	.1613-02	1.014	7.437	567.8
221	.00000	.80000	232.00	.3130-01	.2150-01	.2430-01	.2047-02	.1632-02	.2073-02	1.303	9.559	568.0
221	.00000	.85000	233.00	.3000-01	.2000-01	.2300-01	.2116-02	.1913-02	.2359-02	1.473	11.17	568.4
221	.00000	.90000	234.00	.2870-01	.1950-01	.2170-01	.2338-02	.1933-02	.2336-02	1.455	10.64	564.6
221	.00000	.95000	235.00	.2740-01	.1800-01	.2040-01	.2051-02	.1705-02	.2117-02	1.323	10.82	562.2
221	.00000	1.00000	236.00	.2610-01	.1650-01	.1910-01	.1939-02	.1605-02	.1995-02	1.247	10.20	561.3
221	.00000	1.0150	237.00	.2480-01	.1500-01	.1780-01	.2279-02	.1825-02	.2352-02	1.456	11.90	564.8
221	.00000	1.0300	238.00	.2350-01	.1350-01	.1650-01	.2508-02	.1613-02	.2352-02	5.597	40.36	603.0
221	.00000	1.0450	239.00	.2220-01	.1200-01	.1500-01	.2629-01	.1324-01	.1690-01	9.489	67.61	621.5
221	.00000	1.0600	240.00	.2090-01	.1050-01	.1350-01	.2719-01	.1336-01	.1786-01	9.609	76.86	645.1
221	.00000	1.0750	241.00	.1960-01	.0900-01	.1200-01	.2806-03	.1607-03	.1836-03	5.520	3.332	539.0
221	.00000	1.0900	242.00	.1830-01	.0750-01	.1050-01	.2894-03	.1615-02	.1844-02	1.282	7.926	545.1
221	.00000	1.1050	243.00	.1700-01	.0600-01	.0900-01	.2982-03	.1622-03	.1854-02	2.880	1.434	538.9
221	.00000	1.1200	244.00	.1570-01	.0450-01	.0750-01	.3070-03	.1631-02	.1864-02	1.535	12.10	563.1
221	.00000	1.1350	245.00	.1440-01	.0300-01	.0600-01	.3158-03	.1640-02	.1873-02	1.419	11.16	566.6
221	.00000	1.1500	246.00	.1310-01	.0150-01	.0450-01	.3246-03	.1649-02	.1882-02	8.311	8.311	567.5
221	.00000	1.1650	247.00	.1180-01	.0000-01	.0300-01	.3334-03	.1658-02	.1891-02	9.440	7.846	569.3
221	.00000	1.1800	248.00	.1050-01	.0000-01	.0150-01	.3422-03	.1667-02	.1900-02	1.070	9.260	568.7
221	.00000	1.1950	249.00	.0920-01	.0000-01	.0000-01	.3510-03	.1676-02	.1909-02	1.262	9.313	564.4
221	.00000	1.2100	250.00	.0790-01	.0000-01	.0000-01	.3598-03	.1685-02	.1918-02	1.183	9.313	570.9
221	.00000	1.2250	251.00	.0660-01	.0000-01	.0000-01	.3686-03	.1694-02	.1927-02	1.775	12.00	570.4
221	.00000	1.2400	252.00	.0530-01	.0000-01	.0000-01	.3774-03	.1703-02	.1936-02	2.043	14.98	562.1
221	.00000	1.2550	253.00	.0400-01	.0000-01	.0000-01	.3862-03	.1712-02	.1945-02	1.830	13.47	547.8
221	.00000	1.2700	254.00	.0270-01	.0000-01	.0000-01	.3950-03	.1721-02	.1954-02	1.797	11.10	562.6
221	.00000	1.2850	255.00	.0140-01	.0000-01	.0000-01	.4038-03	.1730-02	.1963-02	1.612	11.86	562.6
221	.00000	1.3000	256.00	.0010-01	.0000-01	.0000-01	.4126-03	.1739-02	.1972-02	1.802	13.97	566.5
221	.00000	1.3150	257.00	.0000-01	.0000-01	.0000-01	.4214-03	.1748-02	.1981-02	2.236	15.41	553.5
221	.00000	1.3300	258.00	.0000-01	.0000-01	.0000-01	.4302-03	.1757-02	.1990-02	1.862	12.79	568.0
221	.00000	1.3450	259.00	.0000-01	.0000-01	.0000-01	.4390-03	.1766-02	.2000-02	1.583	10.95	569.6
221	.00000	1.3600	260.00	.0000-01	.0000-01	.0000-01	.4478-03	.1775-02	.2010-02	1.349	10.23	570.7
221	.00000	1.3750	261.00	.0000-01	.0000-01	.0000-01	.4566-03	.1784-02	.2020-02	1.081	7.673	568.0

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) OR31TER FUSELAGE

GUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
221	32.000	.90000	836.00	.3180-01	.2630-01	.3260-01	.1558-02	.1289-02	.1597-02	.9990	7.349	563.1
221	32.000	.95000	837.00	.3580-01	.2960-01	.3690-01	.1755-02	.1453-02	.1806-02	1.130	8.612	560.3
221	32.000	.97500	838.00	.2430-01	.2010-01	.2500-01	.1189-02	.9855-03	.1226-02	.7700	5.084	557.1
221	32.000	1.0150	839.00	.9290-01	.7650-01	.9270-01	.4552-02	.3749-02	.4543-02	2.844	22.63	579.5
221	32.000	1.0300	840.00	.4105	.3304	.4096	.2012-01	.1622-01	.2007-01	1.119	83.10	648.1
221	32.000	1.0450	841.00	.4902	.3933	.4891	.2402-01	.1928-01	.2397-01	13.06	94.72	660.7
221	32.000	1.0600	842.00	.3811	.3072	.3803	.1868-01	.1506-01	.1864-01	10.39	81.50	647.8
221	45.000	.92500	569.00	.9800-02	.8100-02	.9800-02	.4785-03	.3978-03	.4785-03	3.160	2.347	543.9
221	45.000	.95000	573.00	.3000-02	.2500-02	.3000-02	.1461-03	.1215-03	.1461-03	.9600-01	.7160	544.3
221	45.000	.97500	578.00	.4900-02	.4100-02	.4900-02	.2397-03	.1993-03	.2397-03	.1580	1.174	544.4
221	75.000	.97500	977.00	.4900-02	.4000-02	.4800-02	.2331-03	.1939-03	.2331-03	.1540	1.143	544.3
221	85.000	.97500	976.00	.7100-02	.5900-02	.7100-02	.3464-03	.2860-03	.3464-03	.2290	1.696	544.6
221	180.00	.10000-01	59.000	.2824	.2324	.2624	.1384-01	.1139-01	.1384-01	8.614	62.77	581.9
221	180.00	.25000-01	60.900	.9030-01	.7500-01	.9030-01	.4426-02	.3676-02	.4426-02	2.902	20.80	548.8
221	180.00	.50000-01	61.000	.4190-01	.3490-01	.4190-01	.2053-02	.1708-02	.2053-02	1.361	8.678	541.2
221	180.00	.75000-01	62.000	.2040-01	.1700-01	.2040-01	.9986-03	.8315-03	.9986-03	.6650	4.242	538.7
221	180.00	.10000+00	63.000	.1220-01	.1020-01	.1220-01	.5938-03	.4994-03	.5938-03	.3990	2.625	539.4
221	180.00	.12500	64.000	.7700-02	.6100-02	.7400-02	.3605-03	.3002-03	.3605-03	.2400	1.677	538.3
221	180.00	.15000	65.000	.6500-02	.5400-02	.6500-02	.3183-03	.2650-03	.3183-03	.2120	1.480	538.4
221	180.00	.16200	66.000	.2610-01	.2170-01	.2610-01	.1280-02	.1055-02	.1280-02	.8450	4.709	543.9
221	180.00	.17000	67.000	.6520-01	.5410-01	.6520-01	.3197-02	.2653-02	.3197-02	2.087	11.58	551.3
221	180.00	.20000	69.000	.1610-01	.1340-01	.1610-01	.7900-03	.6573-03	.7900-03	.5230	3.243	541.7
221	180.00	.40100	72.000	.1460-01	.1220-01	.1460-01	.7173-03	.5953-03	.7173-03	.4730	4.010	545.0
221	180.00	.50000	73.000	.1470-01	.1220-01	.1470-01	.7189-03	.5975-03	.7189-03	.4730	4.013	545.8
221	180.00	.60100	74.000	.1400-01	.1160-01	.1400-01	.6951-03	.5693-03	.6951-03	.4510	3.696	546.4
221	180.00	.70100	75.000	.8000-02	.6600-02	.8000-02	.3911-03	.3251-03	.3911-03	.2580	2.053	544.4

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B17)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = 22.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	PN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
242	7.900	.5475	30.01	.0000	180.0	110.8	.1200-01	1264.	93.70	.5380	3748.	.1102-04
243	7.900	.5473	30.01	.0000	180.0	111.0	.1200-01	1266.	93.90	.5390	3750.	.1103-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
242	.7547-07	.1793-01	0.0175
243	.7557-07	.1795-01	.5474-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF P=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AN) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
242	.00000	.00000	1.0000	.7597	.6288	.6508	.1378-01	.1127-01	.1185-01	7.827	43.04	569.5
242	.00000	.5000-02	2.0000	.7530	.6151	.6187	.1350-01	.1103-01	.1109-01	7.614	52.23	573.3
242	.00000	.1000-01	3.0000	.5656	.4797	.4959	.1050-01	.8599-02	.8890-02	6.006	40.11	565.4
242	.00000	.3000-01	5.0000	.2972	.2447	.2682	.5328-02	.4387-02	.4809-02	3.140	17.45	548.0
242	.00000	.4000-01	6.0000	.2380	.1960	.2177	.4265-02	.3514-02	.3903-02	2.518	14.01	547.0
242	.00000	.5000-01	7.0000	.2287	.1882	.2112	.4100-02	.3374-02	.3787-02	2.407	16.20	550.2
242	.00000	.6000-01	8.0000	.2300	.1893	.2140	.4124-02	.3394-02	.3837-02	2.425	15.39	549.4
242	.00000	.7000-01	9.0000	.1999	.1645	.1874	.3583-02	.2949-02	.3359-02	2.104	14.60	550.1
242	.00000	.8000-01	10.000	.1587	.1307	.1497	.2646-02	.2344-02	.2684-02	1.578	11.66	547.6
242	.00000	.9000-01	11.000	.1455	.1199	.1377	.2508-02	.2149-02	.2469-02	1.544	9.823	545.2
242	.00000	1.0000+00	12.000	.1295	.1060	.1222	.2303-02	.1900-02	.2191-02	1.366	8.223	544.6
242	.00000	.1200	14.000	.1192	.9830-01	.1140	.2137-02	.1762-02	.2043-02	1.270	7.080	542.9
242	.00000	.13000	15.000	.1158	.9530-01	.1118	.2094-02	.1726-02	.2005-02	1.244	7.295	543.3
242	.00000	.14000	16.000	.1080	.8910-01	.1036	.1937-02	.1597-02	.1857-02	1.150	7.324	543.4
242	.00000	.16000	18.000	.1059	.8730-01	.1018	.1838-02	.1565-02	.1824-02	1.127	6.977	543.6
242	.00000	.17000	19.000	.1044	.8610-01	.1005	.1872-02	.1543-02	.1801-02	1.111	7.071	544.0
242	.00000	.18000	20.000	.1060	.8740-01	.1020	.1899-02	.1566-02	.1829-02	1.128	7.179	543.7
242	.00000	.19000	21.000	.9570-01	.7930-01	.9330-01	.1734-02	.1431-02	.1672-02	1.033	6.585	541.5
242	.00000	.20000	22.000	.1004	.8240-01	.9700-01	.1800-02	.1485-02	.1739-02	1.070	6.811	543.3

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AEDC VKF V4IB-57A (OH-49B) COLLATION DECK

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(RV1817)

OH-49B (AEDC V4IB-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
242	.0000	.22500	23.000	.9360-01	.7720-01	.9070-01	.1679-02	.1385-02	.1626-02	.9990	6.361	542.6
242	.0000	.45000	801.00	.9140-01	.7540-01	.8860-01	.1538-02	.1351-02	.1589-02	.9750	6.209	542.4
242	.0000	.30000	802.00	.8260-01	.6810-01	.8010-01	.1481-02	.1221-02	.1435-02	.8810	5.611	542.5
242	.0000	.35000	803.00	.8430-01	.6950-01	.8170-01	.1511-02	.1246-02	.1465-02	.8970	5.709	543.7
242	.0000	.40000	804.00	.8380-01	.6910-01	.8130-01	.1502-02	.1238-02	.1457-02	.8920	5.843	543.7
242	.0000	.45000	805.00	.7850-01	.6470-01	.7610-01	.1405-02	.1159-02	.1384-02	.8340	5.627	544.5
242	.0000	.50000	806.00	.7040-01	.5810-01	.6830-01	.1263-02	.1041-02	.1225-02	.7480	5.209	544.7
242	.0000	.55000	807.00	.6850-01	.5650-01	.6640-01	.1228-02	.1012-02	.1191-02	.7270	5.392	545.7
242	.0000	.60000	808.00	.6090-01	.5020-01	.5910-01	.1092-02	.8937-03	.1059-02	.6460	4.796	545.3
242	.0000	.65000	809.00	.6030-01	.4970-01	.5850-01	.1081-02	.8910-03	.1049-02	.6390	4.741	546.4
242	.0000	.70000	810.00	.5670-01	.4680-01	.5500-01	.1017-02	.8381-03	.9685-03	.6020	4.616	546.0
242	.0000	.75000	811.00	.5730-01	.4770-01	.5610-01	.1037-02	.8347-03	.1005-02	.6140	4.552	545.8
242	.0000	.80000	812.00	.5530-01	.4640-01	.5460-01	.1010-02	.8319-03	.9791-03	.5980	4.435	545.3
242	.0000	.85000	813.00	.5560-01	.4590-01	.5460-01	.9973-03	.8220-03	.9780-03	.5910	4.450	544.6
242	.0000	.90000	814.00	.4900-01	.4040-01	.4820-01	.8790-03	.7249-03	.8640-03	.5220	3.755	543.3
242	.0000	.92500	815.00	.1650-01	.1520-01	.1820-01	.310-03	.2731-03	.3282-03	.1970	1.632	540.8
242	.0000	.95000	816.00	.1760-01	.1450-01	.1740-01	.3153-03	.2602-03	.3115-03	.1880	1.555	540.8
242	.0000	.97500	817.00	.2620-01	.2160-01	.2590-01	.4695-03	.3873-03	.4651-03	.2790	2.308	542.1
242	.0000	1.0150	818.00	.2100-01	.1730-01	.2080-01	.3760-03	.3094-03	.3736-03	.2210	1.632	550.8
242	.0000	1.0300	819.00	.1141	.9380-01	.1134	.2046-02	.1681-02	.2032-02	1.193	8.810	554.4
242	.0000	1.0600	821.00	.2934	.2322	.2815	.5080-02	.4162-02	.5047-02	2.910	24.21	564.6
242	.0000	1.1500	822.00	.6830-02	.7300-02	.8800-02	.1579-03	.1305-03	.1579-03	.9500-01	.5740	535.9
242	.0000	1.1500	823.00	.1340-01	.1110-01	.1340-01	.2406-03	.1983-03	.2406-03	.1450	.9020	534.7
242	.0000	1.1500	824.00	.9200-02	.8000-02	.9600-02	.1730-03	.1430-03	.1730-03	.1040	.6320	533.8
242	.0000	1.1500	825.00	.8460-01	.6370-01	.8210-01	.1518-02	.1250-02	.1472-02	.8960	7.121	546.8
242	.0000	1.1500	826.00	.7530-01	.6530-01	.7690-01	.1421-02	.1170-02	.1378-02	.8370	6.648	548.2
242	.0000	1.1500	827.00	.5490-01	.4520-01	.5330-01	.9848-03	.8110-03	.9550-03	.5810	5.166	547.7
242	.0000	1.1500	828.00	.5840-01	.4810-01	.5660-01	.1047-02	.8621-03	.1015-02	.6170	4.573	548.0
242	.0000	1.1500	829.00	.5760-01	.4750-01	.5590-01	.1033-02	.8510-03	.1002-02	.6110	4.533	545.8
242	.0000	1.1500	830.00	.4440-01	.3660-01	.4370-01	.7965-03	.6567-03	.7828-03	.4730	3.764	543.6
242	.0000	1.1500	831.00	.4210-01	.3470-01	.4210-01	.7550-03	.6226-03	.7550-03	.4490	3.334	543.0
242	.0000	1.1500	832.00	.4410-01	.3530-01	.4410-01	.7593-03	.6514-03	.7890-03	.4700	3.489	542.9
242	.0000	1.1500	833.00	.2230-01	.1840-01	.2230-01	.4001-03	.3302-03	.4001-03	.2390	1.777	540.2
242	.0000	1.1500	834.00	.9100-02	.7500-02	.9100-02	.1636-03	.1353-03	.1636-03	.9900-01	.6130	534.5
242	.0000	1.1500	835.00	.2610-01	.2160-01	.2610-01	.4687-03	.3870-03	.4687-03	.2800	2.088	539.1
242	.0000	1.1500	836.00	.3280-01	.2700-01	.3280-01	.5871-03	.4847-03	.5871-03	.3510	2.615	539.1
242	.0000	1.1500	837.00	.2500-02	.2100-02	.2500-02	.4532-04	.3747-04	.4532-04	.2700-01	.2040	533.3
242	.0000	1.1500	838.00	.1063	.8160-01	.1031	.1905-02	.1570-02	.1848-02	1.126	7.834	546.2
242	.0000	1.1500	839.00	.8450-01	.6950-01	.8200-01	.1515-02	.1248-02	.1470-02	.8930	6.401	548.7
242	.0000	1.1500	840.00	.7480-01	.6160-01	.7260-01	.1341-02	.1104-02	.1301-02	.7900	5.318	548.7
242	.0000	1.1500	841.00	.5790-01	.4770-01	.5620-01	.1039-02	.8549-03	.1007-02	.6100	4.674	549.9
242	.0000	1.1500	842.00	.5250-01	.4320-01	.5090-01	.9410-03	.7753-03	.9126-03	.5560	3.994	546.1
242	.0000	1.1500	843.00	.4540-01	.3740-01	.4460-01	.8137-03	.6710-03	.7998-03	.4830	3.592	543.2



## AEDC VKF V418-57A (OH-498) COLLATION DECK

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/HREF (TAW)	H(19TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG.
242	32.000	.95000	837.00	.1950-01	.161C-01	.1920-01	3489-03	2879-03	3448-03	.2060	1.601	541.1
242	32.000	.97500	838.00	.8400-02	.7000-02	.8400-02	1511-03	1247-03	1497-03	.9000-01	.7210	539.4
242	32.000	1.0150	839.00	.1760-01	.1450-01	.1680-01	3161-03	2608-03	3019-03	.1880	1.528	541.3
242	32.000	1.0300	840.00	.1424	.1169	.1353	2553-02	2056-02	2436-02	1.479	11.48	558.0
242	32.000	1.0450	841.00	.2459	.2024	.2355	4427-02	3629-02	4421-02	2.546	19.38	562.1
242	32.000	1.0600	842.00	.2459	.2016	.2344	4406-02	3614-02	4202-02	2.539	20.77	561.2
242	32.000	.92500	969.00	.1100-02	.9000-03	.1000-02	1948-04	1611-04	1948-04	.1200-01	.8800-01	533.4
242	45.000	.97500	976.00	.1000-03	.0000	.1000-03	9417-06	7788-06	9417-06	1.000-02	4.000-02	533.3
242	183.00	1.0000-01	59.000	.1832	.1509	.1832	3285-02	2706-02	3285-02	1.939	14.37	547.2
242	180.00	.25000-01	60.000	.5530-01	.4560-01	.5530-01	9915-03	8184-03	9915-03	.5920	4.266	539.9
242	180.00	.50000-01	61.000	.2450-01	.2040-01	.2460-01	4418-03	3648-03	4418-03	.2650	1.691	538.0
242	180.00	.75000-01	62.000	.1350-01	.1120-01	.1350-01	2121-03	2000-03	2421-03	.1450	.9290	537.0
242	180.00	1.0000-00	63.000	.1010-01	.8300-02	.1010-01	1805-03	1492-03	1805-03	1.090	.7140	536.2
242	180.00	.12500	64.000	.8700-02	.7200-02	.8700-02	1559-03	1288-03	1559-03	.9400-01	.6560	535.7
242	180.00	.15000	65.000	.9300-02	.8200-02	.9300-02	1775-03	1467-03	1775-03	.1070	.7470	535.4
242	180.00	.16000	66.000	.2450-01	.2030-01	.2450-01	4398-03	3633-03	4398-03	.2640	1.477	536.6
242	180.00	.17000	67.000	.5970-01	.4930-01	.5970-01	2717-03	2245-03	2717-03	.1640	3.580	538.2
242	180.00	.20000	69.000	.1520-01	.1250-01	.1520-01	8613-04	7120-04	8613-04	.5200-01	1.017	535.2
242	180.00	.40100	72.000	.4800-02	.4000-02	.4800-02	8568-04	7082-04	8568-04	.5200-01	.4430	534.6
242	180.00	.50000	73.000	.4800-02	.4000-02	.4800-02	1041-03	8060-04	1041-03	.6300-01	.5160	535.2
242	180.00	.60100	74.000	.5800-02	.4800-02	.5800-02	1129-03	9334-04	1129-03	.6800-01	.5450	534.6
242	180.00	.70100	75.000	.6300-02	.5200-02	.6300-02						

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B17)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0070 ELEVTR = .0000 SPDRBK = .0000  
 BDFLAP = 22.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PSIA	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
236	7.940	1.020	30.02	.0000	180.0	211.3	.2300-01	.2300-01	1272.	93.40	1.003	3761.	.2043-04
237	7.940	1.012	30.01	.0000	180.0	210.3	.2300-01	.2300-01	1274.	93.60	.9980	3764.	.2027-04

RUN NUMBER	MU	HREF	BTU/ R FT2SEC	ST FR R =
236	7523-07	.2450-01		0.0175
237	7537-07	.2445-01		.4026-01 .4041-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
236	.0000	.0000	1.0000	.7880	.6425	.6757	.1931-01	.1574-01	.1655-01	10.84	59.20	582.9
236	.0000	.5000-02	2.0000	.7532	.6130	.6165	.1845-01	.1502-01	.1510-01	10.26	69.84	588.5
236	.0000	.1000-01	3.0000	.6083	.4967	.5137	.1490-01	.1217-01	.1259-01	8.435	55.98	578.3
236	.0000	.3000-01	5.0000	.2944	.2422	.2556	.7214-02	.5934-02	.6507-02	4.255	23.57	554.6
236	.0000	.4000-01	6.0000	.2417	.1530	.2211	.5922-02	.4976-02	.5417-02	3.513	19.49	551.2
236	.0000	.5000-01	7.0000	.2280	.1874	.2105	.5587-02	.4592-02	.5158-02	3.279	21.99	557.5
236	.0000	.6000-01	8.0000	.2288	.1892	.2123	.5605-02	.4611-02	.5215-02	3.307	20.94	554.4
236	.0000	.7000-01	9.0000	.1921	.1580	.1803	.4706-02	.3870-02	.4410-02	2.771	19.18	555.7
236	.0000	.8000-01	10.000	.1539	.1266	.1453	.3769-02	.3101-02	.3553-02	2.225	15.41	554.2
236	.0000	.9000-01	11.000	.1442	.1188	.1365	.3533-02	.2939-02	.3344-02	2.096	13.30	551.0
236	.0000	.1000+00	12.000	.1332	.1097	.1265	.3264-02	.2689-02	.3102-02	1.938	11.63	550.5
236	.0000	.12000	14.000	.1181	.9730-01	.1128	.2992-02	.2385-02	.2765-02	1.727	9.606	547.2
236	.0000	.13000	15.000	.1143	.9420-01	.1094	.2799-02	.2307-02	.2682-02	1.670	9.775	547.6
236	.0000	.14000	16.000	.1063	.8760-01	.1019	.2603-02	.2146-02	.2496-02	1.553	9.866	548.2
236	.0000	.16000	18.000	.1080	.8300-01	.1037	.2645-02	.2180-02	.2541-02	1.577	9.737	548.2
236	.0000	.17000	19.000	.1050	.8740-01	.1023	.2597-02	.2140-02	.2498-02	1.548	9.829	548.4
236	.0000	.18000	20.000	.1040	.8570-01	.1002	.2549-02	.2101-02	.2454-02	1.519	9.644	548.6
236	.0000	.19000	21.000	.1036	.8550-01	.9993-01	.2539-02	.2094-02	.2448-02	1.519	9.658	546.1
236	.0000	.20000	22.000	.1002	.8260-01	.9673-01	.2455-02	.2023-02	.2370-02	1.464	9.302	547.9

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TH DEG. R
235	.00000	.22500	23.000	.9570-01	.7890-01	.9270-01	.2345-01	.1933-02	.2270-02	1.401	8.903	547.0
236	.00000	.25000	801.00	.9130-01	.7520-01	.8850-01	.2336-01	.1843-02	.2168-02	1.336	8.489	547.0
236	.00000	.30000	802.00	.8050-01	.6640-01	.7810-01	.1974-02	.1627-02	.1914-02	1.177	7.476	548.1
236	.00000	.35000	803.00	.8110-01	.6680-01	.7870-01	.1998-02	.1637-02	.1927-02	1.181	7.494	550.2
236	.00000	.40000	804.00	.8300-01	.6840-01	.8050-01	.2034-02	.1675-02	.1972-02	1.209	7.896	550.1
236	.00000	.45000	805.00	.7770-01	.6400-01	.7530-01	.1903-02	.1567-02	.1845-02	1.129	7.591	551.4
236	.00000	.50000	806.00	.6990-01	.5750-01	.6770-01	.1712-02	.1409-02	.1660-02	1.015	7.037	551.6
236	.00000	.55000	807.00	.6820-01	.5610-01	.6510-01	.1570-02	.1375-02	.1619-02	.9870	7.296	553.4
236	.00000	.60000	808.00	.6040-01	.4970-01	.5560-01	.1102	.1219-02	.1435-02	.8750	6.471	553.1
236	.00000	.65000	809.00	.5750-01	.4730-01	.5370-01	.1458-02	.1158-02	.1365-02	.9300	6.133	554.6
236	.00000	.70000	810.00	.5540-01	.4550-01	.5370-01	.1357-02	.1117-02	.1316-02	.8010	6.119	554.4
236	.00000	.75000	811.00	.5520-01	.4530-01	.5340-01	.1349-02	.1110-02	.1307-02	.7960	5.882	554.1
236	.00000	.80000	812.00	.5850-01	.4810-01	.5670-01	.1433-02	.1180-02	.1390-02	.8470	6.258	553.7
236	.00000	.85000	813.00	.5440-01	.4480-01	.5330-01	.1332-02	.1097-02	.1306-02	.7880	6.031	552.6
236	.00000	.90000	814.00	.5210-01	.4290-01	.5120-01	.1276-02	.1051-02	.1251-02	.7590	5.437	549.7
236	.00000	.92500	815.00	.2380-01	.1960-01	.2340-01	.5822-03	.4800-03	.5737-03	3.480	2.866	547.0
236	.00000	.95000	816.00	.1970-01	.1630-01	.1950-01	.4830-03	.3982-03	.4771-03	2.379	3.088	549.0
236	.00000	.97500	817.00	.2570-01	.2120-01	.2550-01	.6301-03	.5192-03	.6241-03	3.750	3.416	566.3
236	.00000	1.0150	818.00	.3280-01	.2690-01	.3260-01	.8047-03	.6596-03	.7993-03	4.650	22.05	572.2
236	.00000	1.0300	819.00	.2148	.1758	.2134	.5263-02	.4306-02	.5228-02	3.011	45.26	592.3
236	.00000	1.0600	821.00	.4077	.3314	.4043	.9568-02	.8118-02	.9918-02	5.514	.6020	537.3
236	.00000	.15000	89.000	.6700-02	.5500-02	.6700-02	.1641-03	.1357-03	.1641-03	1.000+00	1.562	536.6
236	.00000	.20000	91.000	.1690-01	.1400-01	.1690-01	.4138-03	.3422-03	.4138-03	.2510	.7890	537.2
236	.00000	.50000-01	90.000	.8800-02	.7300-02	.8800-02	.2151-03	.1779-03	.2151-03	1.130	9.389	553.5
236	.00000	.40000	823.00	.8190-01	.6740-01	.7940-01	.2006-02	.1651-02	.1945-02	1.185	8.817	555.1
236	.00000	.50000	824.00	.7730-01	.6350-01	.7490-01	.1893-02	.1557-02	.1835-02	1.115	6.700	555.8
236	.00000	.60000	825.00	.5250-01	.4320-01	.5090-01	.1286-02	.1057-02	.1246-02	.7560	6.466	554.2
236	.00000	.70000	826.00	.6070-01	.5030-01	.5890-01	.1488-02	.1224-02	.1443-02	.8760	6.210	554.4
236	.00000	.80000	827.00	.5810-01	.4780-01	.5640-01	.1424-02	.1172-02	.1381-02	.8410	5.359	554.3
236	.00000	.90000	828.00	.4540-01	.3820-01	.4560-01	.1138-02	.1125-02	.1118-02	.8070	5.360	551.5
236	.00000	.92500	971.00	.5580-01	.4590-01	.5580-01	.1367-02	.1135-02	.1367-02	7.211	3.795	545.8
236	.00000	.95000	975.00	.6710-01	.5530-01	.6710-01	.1644-02	.1354-02	.1644-02	9750	1.034	536.2
236	.00000	.97500	980.00	.3490-01	.2880-01	.3490-01	.8544-03	.7047-03	.8544-03	5110	6.494	548.9
236	.00000	.20000	93.000	.1120-01	.9200-02	.1120-01	.2736-03	.2263-03	.2736-03	.1660	1.034	537.3
236	.00000	.30000	925.00	.5460-01	.4500-01	.5460-01	.1339-02	.1103-02	.1339-02	.7980	5.911	548.4
236	.00000	.40000	970.00	.6010-01	.4950-01	.6010-01	.1472-02	.1213-02	.1472-02	.8770	4.735	537.3
236	.00000	.50000	974.00	.4270-01	.3530-01	.4270-01	.1047-02	.8653-03	.1047-02	.6350	10.67	552.3
236	.00000	.60000	979.00	.1061	.8730-01	.1029	.2599-02	.2140-02	.2520-02	1.539	9.230	555.6
236	.00000	.83100+10	832.00	.6560-01	.7360-01	.8680-01	.2194-02	.1804-02	.2127-02	1.292	7.200	557.6
236	.00000	.90000	833.00	.7470-01	.6140-01	.7240-01	.1830-02	.1504-02	.1774-02	1.074	7.391	559.7
236	.00000	.95000	834.00	.6770-01	.5560-01	.6560-01	.1659-02	.1362-02	.1608-02	.9700	5.409	554.0
236	.00000	.80000	835.00	.5230-01	.4300-01	.5070-01	.1281-02	.1054-02	.1242-02	.7560	4.850	549.5
236	.00000	.90000	836.00	.4490-01	.3700-01	.4420-01	.1101-02	.9070-03	.1082-02	.6550		

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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(R/1817)

OH-498 (AEDC V41B-57A) OREITER FUSELAGE

PUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAW)	H(OTO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QOOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
236	32.000	.95000	837.00	.2630-01	.2170-01	.2590-01	.6433-03	.5304-03	.3840	2.949	546.8
236	32.000	.97500	839.00	.1510-01	.1250-01	.1500-01	.3706-03	.3056-03	.2220	1.761	546.4
236	32.000	1.0150	839.00	.3630-01	.2990-01	.3470-01	.8897-03	.7333-03	.5300	4.287	548.3
236	32.000	1.0300	840.00	.3001	.2448	.2858	.7352-02	.5997-02	.4	31.71	582.1
236	32.000	1.0450	841.00	.4449	.3517	.4233	.1090-01	.8861-02	.6	45.20	591.6
236	32.000	1.0600	842.00	.3703	.3017	.3526	.9073-02	.7391-02	.5	45.20	585.7
236	45.000	.92500	959.00	.7900-02	.6500-02	.7900-02	.1934-03	.1934-03	.19	1	536.6
236	45.000	.95000	973.00	.1300-02	.1100-02	.1300-02	.3132-04	.3132-04	.19	1	535.4
236	45.000	.97500	978.00	.8000-03	.7000-03	.8000-03	.2077-04	.2077-04	.1300	10-01	534.8
236	75.000	.97500	977.00	.5000-03	.4000-03	.5000-03	.1226-04	.1015-04	.7000	10-01	534.9
236	85.000	.97500	976.00	.6000-03	.5000-03	.6000-03	.1477-04	.1222-04	.9000-01	6.700-01	534.6
236	180.00	.10000-01	59.000	.1833	.1509	.1833	.4490-02	.3698-02	2.665	19.72	550.9
236	180.00	.25000-01	60.000	.5180-01	.4280-01	.5180-01	.1269-02	.1048-02	.7630	5.488	543.0
236	180.00	.50000-01	61.000	.2310-01	.1910-01	.2310-01	.5666-03	.4681-03	.3420	2.183	540.1
236	180.00	.75000-01	62.000	.1230-01	.1010-01	.1230-01	.3005-03	.2483-03	.1820	1.161	538.9
236	180.00	.10000+00	63.000	.9300-02	.7700-02	.9300-02	.2271-03	.1877-03	.1380	.9040	538.5
236	180.00	.12500	64.000	.9200-02	.7600-02	.9200-02	.2258-03	.1867-03	.1370	.9560	538.3
236	180.00	.15000	65.000	.1350-01	.1150-01	.1350-01	.3413-03	.2822-03	.2070	1.447	537.5
236	180.00	.16000	65.000	.5110-01	.4250-01	.5140-01	.1259-02	.1040-02	.7620	4.252	539.5
236	180.00	.17000	67.000	.6750-01	.5570-01	.6750-01	.1654-02	.1365-02	.9960	5.551	542.2
236	180.00	.20000	69.000	.1420-01	.1340-01	.1620-01	.3980-03	.3291-03	.8420	1.500	537.5
236	180.00	.40100	72.000	.5500-02	.4600-02	.5500-02	.1351-03	.1117-03	.2000-01	.7000	536.7
236	180.00	.50000	73.000	.7700-02	.6300-02	.7700-02	.1875-03	.1550-03	.1140	.9700	537.2
236	180.00	.60100	74.000	.6700-02	.5500-02	.6700-02	.1636-03	.1353-03	.9900-01	.8190	537.3
236	180.00	.70100	75.000	.7700-02	.6400-02	.7700-02	.1884-03	.1558-03	.1150	.9160	536.3

FUSELAGE

PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = 25.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.5 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
223	8.000	3.749	30.07	.0000	180.0	860.3	.8800-01	1343.	97.30	3.948	3867.	.7597-04
224	8.000	3.744	30.05	.0000	180.0	860.3	.8900-01	1344.	97.40	3.948	3869.	.7589-04

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
223	.00000	.00000	1.0000	.7728	.6273	.6605	.3792-01	.3078-01	.3241-01	21.97	117.3	629.5
223	.00000	.50000-02	2.0000	.7459	.6028	.6064	.3660-01	.2958-01	.2976-01	20.71	137.3	642.9
223	.00000	.10000-01	3.0000	.6085	.4952	.5124	.2986-01	.2430-01	.2514-01	17.53	113.9	621.6
223	.00000	.20000-01	4.0000	.3970	.3271	.3513	.1948-01	.1605-01	.1724-01	12.24	66.96	580.3
223	.00000	.30000-01	5.0000	.2926	.2418	.2545	.1436-01	.1186-01	.1298-01	9.169	50.40	570.2
223	.00000	.40000-01	6.0000	.2404	.1990	.2204	.1180-01	.9763-02	.1081-01	7.602	41.91	564.3
223	.00000	.50000-01	7.0000	.2241	.1848	.2071	.1099-01	.9368-02	.1016-01	6.950	46.16	576.6
223	.00000	.60000-01	8.0000	.2242	.1852	.2089	.1100-01	.9089-02	.1025-01	7.012	44.02	571.5
223	.00000	.70000-01	9.0000	.1935	.1614	.1834	.9596-02	.7918-02	.8031-02	6.084	41.71	574.7
223	.00000	.80000-01	10.000	.1526	.1262	.1441	.7490-02	.6192-02	.7070-02	4.800	33.02	567.9
223	.00000	.90000-01	11.000	.1425	.1180	.1351	.6994-02	.5791-02	.6631-02	4.520	28.50	562.5
223	.00000	.10000+00	12.000	.1319	.1092	.1255	.6472-02	.5359-02	.6160-02	4.186	24.97	562.0
223	.00000	.12000	14.000	.1179	.9770-01	.1123	.5784-02	.4795-02	.5535-02	3.769	20.86	557.0
223	.00000	.15000	15.000	.1134	.9400-01	.1087	.5563-02	.4611-02	.5377-02	3.619	21.07	558.1
223	.00000	.16000	16.000	.1036	.8590-01	.9940-01	.5084-02	.4213-02	.4879-02	3.302	20.86	559.2
223	.00000	.16000	18.000	.1067	.8840-01	.1025	.5237-02	.4337-02	.5037-02	3.389	20.78	561.7
223	.00000	.17000	19.000	.1042	.8630-01	.1004	.5115-02	.4234-02	.4925-02	3.302	20.82	563.2
223	.00000	.18000	20.000	.1050	.8630-01	.1011	.5150-02	.4263-02	.4963-02	3.322	20.94	563.7
223	.00000	.19000	21.000	.1002	.8300-01	.9670-01	.4919-02	.4075-02	.4747-02	3.190	20.14	560.3

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1B17)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
223	.00000	.20000	22.000	.9730-01	.8050-01	.9400-01	.4774-02	.3952-02	.4613-02	3.081	19.42	553.4
223	.00000	.22500	23.000	.9440-01	.7820-01	.9140-01	.4632-02	.3836-02	.4487-02	2.995	18.89	562.1
223	.00000	.25000	24.000	.9170-01	.7590-01	.8890-01	.4498-02	.3724-02	.4365-02	2.906	18.32	562.7
223	.00000	.27500	25.000	.8920-01	.7360-01	.8640-01	.4360-02	.3512-02	.4239-02	2.817	17.75	563.8
223	.00000	.30000	26.000	.8660-01	.7130-01	.8400-01	.4239-02	.3380-02	.4122-02	2.719	17.10	568.8
223	.00000	.32500	27.000	.8410-01	.6900-01	.8150-01	.4118-02	.3257-02	.4009-02	2.672	17.28	570.1
223	.00000	.35000	28.000	.8160-01	.6670-01	.7900-01	.3982-02	.3125-02	.3862-02	2.535	16.87	572.1
223	.00000	.37500	29.000	.7910-01	.6440-01	.7650-01	.3845-02	.3007-02	.3735-02	2.308	15.82	575.6
223	.00000	.40000	30.000	.7660-01	.6210-01	.7400-01	.3709-02	.2888-02	.3604-02	2.365	17.26	578.7
223	.00000	.42500	31.000	.7410-01	.6000-01	.7150-01	.3572-02	.2767-02	.3479-02	2.385	17.40	579.6
223	.00000	.45000	32.000	.7160-01	.5790-01	.6900-01	.3435-02	.2646-02	.3342-02	2.308	22.46	585.2
223	.00000	.47500	33.000	.6910-01	.5580-01	.6650-01	.3300-02	.2525-02	.3219-02	2.955	29.68	590.8
223	.00000	.50000	34.000	.6660-01	.5370-01	.6400-01	.3165-02	.2404-02	.3096-02	5.228	37.83	595.9
223	.00000	.52500	35.000	.6410-01	.5160-01	.6150-01	.3030-02	.2283-02	.2973-02	6.511	46.98	601.9
223	.00000	.55000	36.000	.6160-01	.4950-01	.5900-01	.2895-02	.2162-02	.2862-02	6.731	50.16	605.1
223	.00000	.57500	37.000	.5910-01	.4740-01	.5650-01	.2760-02	.2041-02	.2739-02	5.523	45.60	599.4
223	.00000	.60000	38.000	.5660-01	.4530-01	.5400-01	.2625-02	.1920-02	.2604-02	5.494	44.22	594.0
223	.00000	.62500	39.000	.5410-01	.4320-01	.5150-01	.2490-02	.1799-02	.2478-02	5.513	44.27	598.6
223	.00000	.65000	40.000	.5160-01	.4110-01	.4900-01	.2355-02	.1678-02	.2347-02	5.753	46.07	604.0
223	.00000	.67500	41.000	.4910-01	.3900-01	.4650-01	.2220-02	.1557-02	.2216-02	12.81	89.49	668.2
223	.00000	.70000	42.000	.4660-01	.3690-01	.4400-01	.2085-02	.1436-02	.2074-02	13.87	97.03	666.0
223	.00000	.72500	43.000	.4410-01	.3480-01	.4150-01	.1950-02	.1315-02	.1939-02	10.87	85.76	673.5
223	.00000	.75000	44.000	.4160-01	.3270-01	.3900-01	.1815-02	.1194-02	.1808-02	23.20	133.7	539.1
223	.00000	.77500	45.000	.3910-01	.3060-01	.3650-01	.1680-02	.1073-02	.1692-02	5.305	5.305	543.1
223	.00000	.80000	46.000	.3660-01	.2850-01	.3400-01	.1545-02	.0952-02	.1561-02	1.160	.6980	539.9
223	.00000	.82500	47.000	.3410-01	.2640-01	.3150-01	.1410-02	.0831-02	.1429-02	2.618	20.47	578.6
223	.00000	.85000	48.000	.3160-01	.2430-01	.2900-01	.1275-02	.0710-02	.1293-02	2.498	19.48	583.5
223	.00000	.87500	49.000	.2910-01	.2220-01	.2650-01	.1140-02	.0590-02	.1211-02	2.014	17.58	584.6
223	.00000	.90000	50.000	.2660-01	.2010-01	.2400-01	.0995-02	.0470-02	.1030-02	3.172	23.00	591.6
223	.00000	.92500	51.000	.2410-01	.1800-01	.2150-01	.0860-02	.0350-02	.0900-02	5.238	37.87	597.7
223	.00000	.95000	52.000	.2160-01	.1590-01	.1900-01	.0725-02	.0230-02	.0864-02	5.421	41.98	598.4
223	.00000	.97500	53.000	.1910-01	.1380-01	.1650-01	.0590-02	.0110-02	.0755-02	3.711	26.99	586.1
223	.00000	.10000	54.000	.1660-01	.1170-01	.1400-01	.0455-02	.0000-02	.0620-02	4.599	33.34	591.9
223	.00000	.10250	55.000	.1410-01	.0960-01	.1150-01	.0320-02	.0000-02	.0485-02	4.269	31.04	586.2
223	.00000	.10500	56.000	.1160-01	.0750-01	.0900-01	.0185-02	.0000-02	.0340-02	4.400	23.65	575.1
223	.00000	.10750	57.000	.0910-01	.0540-01	.0650-01	.0050-02	.0000-02	.0295-02	3.235	23.65	575.1
223	.00000	.11000	58.000	.0660-01	.0330-01	.0400-01	.0000-02	.0000-02	.0250-02	2.204	16.23	560.9
223	.00000	.11250	59.000	.0410-01	.0120-01	.0150-01	.0000-02	.0000-02	.0205-02	2.270	22.42	574.5
223	.00000	.11500	60.000	.0160-01	.0010-01	.0040-01	.0000-02	.0000-02	.0160-02	2.913	19.83	582.9
223	.00000	.11750	61.000	.0010-01	.0000-01	.0030-01	.0000-02	.0000-02	.0115-02	2.607	17.23	586.7
223	.00000	.12000	62.000	.0000-01	.0000-01	.0020-01	.0000-02	.0000-02	.0080-02	2.737	20.54	590.9
223	.00000	.12250	63.000	.0000-01	.0000-01	.0010-01	.0000-02	.0000-02	.0065-02	3.678	25.83	590.2

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

(RV1817)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-493 (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAW)	H(OTO) BTU/ R FT2SEC	H(UTO) BTU/ R FT2SEC	H(UTAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
223	32.000	.90000	836.00	.1522	.1251	.1495	.7469-02	.6138-02	.7336-02	4.625	33.57	589.5
223	32.000	.95000	837.00	.1550	.1365	.1633	.8147-02	.6696-02	.8045-02	5.050	37.93	588.9
223	32.000	.97500	839.00	.1711	.1404	.1694	.8397-02	.6892-02	.8313-02	5.166	40.10	593.5
223	32.000	1.0150	835.00	.5196	.4112	.4903	.2550-01	.2018-01	.2408-01	12.99	97.56	699.3
223	32.000	1.0300	840.00	.5441	.4326	.5145	.2670-01	.2123-01	.2525-01	13.91	101.4	687.7
223	32.000	1.0450	841.00	.5622	.4468	.5317	.2739-01	.2193-01	.2609-01	14.35	102.7	688.6
223	32.000	1.0600	842.00	.4292	.3435	.4065	.2106-01	.1686-01	.1995-01	11.35	88.05	669.9
223	45.000	.92500	569.00	.2670-01	.2220-01	.2670-01	.1312-02	.1091-02	.1312-02	.5690	6.441	546.9
223	45.000	.95000	573.00	.1500-02	.1300-02	.1500-02	.7456-04	.6207-04	.7456-04	5.000-01	.3700	541.7
223	45.000	.97500	972.00	.1400-02	.1100-02	.1400-02	.6756-04	.5624-04	.6756-04	4.500-01	.3350	541.5
223	75.000	.97500	977.00	.8000-03	.6000-03	.8000-03	.3753-04	.3124-04	.3753-04	.2500-01	.1860	541.8
223	85.000	.97500	976.00	.2200-02	.1600-02	.2200-02	.1082-03	.9010-04	.1082-03	.7200-01	.5370	541.9
223	180.00	1.0020-01	59.000	.1734	.1435	.1734	.8508-02	.7044-02	.8508-02	5.497	40.44	562.6
223	180.00	.25000-01	60.000	.4790-01	.3930-01	.4790-01	.2351-02	.1956-02	.2351-02	1.562	11.22	544.3
223	180.00	.50000	61.000	.2040-01	.1700-01	.2040-01	.9996-03	.8324-03	.9996-03	.6680	4.261	540.3
223	180.00	.75000	62.000	.1080-01	.9000-02	.1080-01	.5316-03	.4428-03	.5316-03	.3560	2.269	539.7
223	180.00	.90000	63.000	.9400-02	.7800-02	.9400-02	.4595-03	.3826-03	.4595-03	.3070	2.017	540.2
223	180.00	1.10000	64.000	.1280-01	.1060-01	.1280-01	.372-03	.5221-03	.6272-03	.4190	2.917	541.5
223	180.00	1.30000	65.000	.2373-01	.1970-01	.2370-01	.1165-02	.9689-03	.1165-02	.7750	5.395	543.5
223	180.00	1.50000	66.000	.7117-01	.5920-01	.7130-01	.3500-02	.2906-02	.3500-02	2.296	12.73	552.7
223	180.00	1.70000	67.000	.9660-01	.8020-01	.9660-01	.4742-02	.3937-02	.4742-02	3.113	17.26	552.3
223	180.00	2.00000	69.000	.1450-01	.1210-01	.1450-01	.7125-03	.5931-03	.7125-03	.4750	2.944	541.8
223	180.00	.40100	72.000	.1240-01	.1030-01	.1240-01	.6104-03	.5079-03	.6104-03	.4060	3.445	543.8
223	180.00	.50000	73.000	.1000-01	.8300-02	.1000-01	.4894-03	.4072-03	.4894-03	.3250	2.763	543.6
223	180.00	.60100	74.000	.7600-02	.6300-02	.7600-02	.3727-03	.3101-03	.3727-03	.2480	2.039	542.9
223	180.00	.70100	75.000	.6600-02	.5500-02	.6600-02	.3232-03	.2689-03	.3232-03	.2150	1.714	542.6

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-498) COLLATION DECK

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CH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B18)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
BOFLAP = 22.00 'ACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	R40 SLUGS /FT3
244	7.900	.5420	40.02	.0000	180.0	110.2	.1200-01	1268.	94.00	.5350	3754.	.1093-04
245	7.900	.5402	40.05	.0000	180.0	110.4	.1200-01	1272.	54.40	.5360	3760.	.1091-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
244	.7570-07	.1789-01	0.0175
245	.7596-07	.1792-01	.5506-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TM DEG. R
244	.00000	.00000	1.0000	.6093	.5009	.5446	.1090-01	.8961-02	.9741-02	6.386	35.37	555.1
244	.00000	.50000-02	2.0000	.7113	.5836	.5836	.1272-01	.1044-01	.1044-01	7.373	50.89	561.5
244	.00000	.10000-01	3.0000	.6683	.5495	.5559	.1197-01	.9830-02	.9945-02	6.980	46.80	557.6
244	.00000	.20000-01	4.0000	.3454	.2850	.2963	.6179-02	.5099-02	.5300-02	3.597	20.60	542.7
244	.00000	.30000-01	5.0000	.3441	.2837	.2997	.6156-02	.5075-02	.5362-02	3.665	20.40	545.6
244	.00000	.40000-01	6.0000	.2790	.2301	.2458	.4990-02	.4117-02	.4397-02	2.981	16.60	543.7
244	.00000	.50000-01	7.0000	.2776	.2286	.2465	.4966-02	.4090-02	.4409-02	2.939	19.79	549.2
244	.00000	.60000-01	8.0000	.2872	.2366	.2567	.5137-02	.4233-02	.4592-02	3.051	19.39	547.1
244	.00000	.70000-01	9.0000	.2487	.2049	.2237	.4450-02	.3665-02	.4002-02	2.636	18.31	548.5
244	.00000	.80000-01	10.0000	.2015	.1600	.1822	.3605-02	.2970-02	.3260-02	2.137	14.85	548.1
244	.00000	.90000-01	11.0000	.1953	.1610	.1773	.3493-02	.2880-02	.3171-02	2.079	13.22	545.9
244	.00000	1.0000+00	12.0000	.1769	.1458	.1611	.3164-02	.2608-02	.2883-02	1.883	11.33	545.7
244	.00000	1.2000	13.0000	.1647	.1359	.1509	.2947-02	.2431-02	.2699-02	1.761	9.811	543.4
244	.00000	1.5000	15.0000	.1563	.1293	.1437	.2795-02	.2306-02	.2564-02	1.669	9.785	543.9
244	.00000	1.7500	17.0000	.1481	.1221	.1360	.2649-02	.2185-02	.2433-02	1.581	10.06	544.3
244	.00000	1.8000	18.0000	.1548	.1276	.1424	.2769-02	.2283-02	.2548-02	1.650	10.20	545.1
244	.00000	1.7500	19.0000	.1516	.1250	.1397	.2712-02	.2236-02	.2499-02	1.615	10.27	545.6
244	.00000	1.8000	20.0000	.1530	.1261	.1410	.2736-02	.2250-02	.2523-02	1.629	10.36	545.5
244	.00000	1.9000	21.0000	.1469	.1212	.1357	.2628-02	.2168-02	.2427-02	1.572	10.01	542.9



(RV1818)

## AEDC VKF V41B-57A (CH-49B) COLLATION DECK

## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(910) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
244	.00000	.20000	22.000	.1430	.1179	.1322	.2559-02	.2110-02	.2355-02	1.524	9.696	545.2
244	.00000	.22500	23.000	.1396	.1151	.1294	.2497-02	.2060-02	.2315-02	1.490	9.481	544.4
244	.00000	.25000	801.00	.1314	.1084	.1220	.2351-02	.1939-02	.2103-02	1.403	8.929	544.3
244	.00000	.30000	802.00	.1206	.9950-01	.1120	.2158-02	.1780-02	.2003-02	1.287	8.189	544.6
244	.00000	.35000	803.00	.1271	.1047	.1180	.2273-02	.1874-02	.2110-02	1.352	8.597	546.1
244	.00000	.40000	804.00	.1212	.9993-01	.1125	.2169-02	.1788-02	.2013-02	1.291	8.446	545.9
244	.00000	.45000	805.00	.1091	.8990-01	.1012	.1951-02	.1607-02	.1811-02	1.157	7.800	547.7
244	.00000	.50000	805.00	.9950-01	.6110-01	.9140-01	.1761-02	.1451-02	.1635-02	1.045	7.261	547.7
244	.00000	.55000	807.00	.9970-01	.7550-01	.8970-01	.1729-02	.1424-02	.1605-02	1.024	7.582	549.1
244	.00000	.60000	808.00	.8720-01	.7180-01	.8090-01	.1550-02	.1285-02	.1448-02	.9240	6.943	548.8
244	.00000	.65000	809.00	.8440-01	.6350-01	.7830-01	.1510-02	.1243-02	.1401-02	.8920	6.602	550.3
244	.00000	.70000	810.00	.8170-01	.6730-01	.7580-01	.1462-02	.1204-02	.1357-02	.8640	6.614	550.3
244	.00000	.75000	811.00	.8040-01	.6630-01	.7460-01	.1439-02	.1184-02	.1335-02	.8500	6.293	550.1
244	.00000	.80000	812.00	.8360-01	.6880-01	.7760-01	.1495-02	.1231-02	.1387-02	.8840	6.549	549.5
244	.00000	.85000	813.00	.7560-01	.6310-01	.7190-01	.1371-02	.1129-02	.1286-02	.8110	6.216	549.2
244	.00000	.90000	814.00	.7310-01	.6030-01	.6870-01	.1308-02	.1078-02	.1230-02	.7760	5.569	547.5
244	.00000	.95000	815.00	.3630-01	.2990-01	.3420-01	.6492-03	.5352-03	.6121-03	.3870	3.187	545.5
244	.00000	.95000	815.00	.2380-01	.1950-01	.2250-01	.4259-03	.3511-03	.4026-03	.2530	2.090	545.7
244	.00000	.97500	817.00	.3110-01	.2530-01	.2940-01	.5557-03	.4577-03	.5256-03	.3290	2.709	548.7
244	.00000	1.01500	818.00	.5120-01	.4190-01	.4650-01	.9155-03	.7504-03	.8690-03	.5270	3.876	564.8
244	.00000	1.03000	819.00	.2765	.2265	.2624	.4947-02	.4051-02	.4694-02	2.838	20.83	567.3
244	.00000	1.05000	821.00	.4238	.3462	.4019	.7582-02	.6194-02	.7190-02	4.289	35.50	575.3
244	.00000	.15000	89.000	.5000-02	.4200-02	.5000-02	.9989-04	.7432-04	.8993-04	.5400-01	.3290	535.6
244	.00000	.20000	91.000	.7500-02	.6200-02	.7500-02	.1349-03	.1116-03	.1349-03	.8200-01	.5090	534.6
244	.00000	.50000-01	90.000	.1540-01	.1350-01	.1640-01	.2931-03	.2424-03	.2931-03	.1780	1.074	534.9
244	.00000	.40000	823.00	.1106	.9850-01	.1110	.2140-02	.1762-02	.1986-02	1.265	10.04	549.7
244	.00000	.50000	824.00	.1094	.9010-01	.1015	.1958-02	.1612-02	.1816-02	1.155	9.161	550.8
244	.00000	.60000	825.00	.7540-01	.6200-01	.6990-01	.1348-02	.1110-02	.1445-02	.7950	7.956	551.5
244	.00000	.70000	826.00	.8710-01	.7180-01	.8080-01	.1557-02	.1281-02	.1445-02	.9170	6.782	552.1
244	.00000	.80000	827.00	.8150-01	.6710-01	.7570-01	.1459-02	.1201-02	.1353-02	.8620	6.380	550.1
244	.00000	.90000	828.00	.6330-01	.5220-01	.5950-01	.1133-02	.9334-03	.1065-02	.6720	5.336	547.8
244	.00000	.92500	971.00	.9350-01	.7700-01	.9350-01	.1674-02	.1378-02	.1674-02	.9860	7.293	552.0
244	.00000	.95000	975.00	.9930-01	.8220-01	.9930-01	.1787-02	.1471-02	.1787-02	1.054	7.801	551.0
244	.00000	.97500	980.00	.6190-01	.5030-01	.6090-01	.1090-02	.8992-03	.1090-02	.6460	4.788	548.3
244	.00000	.99500	93.000	.8400-02	.6330-02	.8400-02	.1459-03	.1240-03	.1433-03	.5650	6.111	546.7
244	.00000	.95000	970.00	.7150-01	.6390-01	.7750-01	.1387-02	.1143-02	.1387-02	.8240	6.956	547.7
244	.00000	.97400	974.00	.8840-01	.7290-01	.8940-01	.1582-02	.1303-02	.1582-02	.7630	5.688	537.7
244	.00000	.97500	979.00	.7070-01	.5650-01	.7070-01	.1266-02	.1046-02	.1266-02	1.473	1.233	548.0
244	.00000	.83100+10	831.00	.1339	.1144	.1285	.2484-02	.2047-02	.2305-02	1.059	9.275	550.9
244	.00000	.83200	832.00	.1227	.1013	.1136	.1793-02	.1480-02	.1668-02	1.059	9.275	552.2
244	.00000	.83300	833.00	.1025	.8270-01	.9330-01	.1793-02	.1480-02	.1668-02	1.059	9.275	552.2
244	.00000	.83400	834.00	.5950-01	.4510-01	.5030-01	.9813-03	.8074-03	.9102-03	.5780	4.420	549.9
244	.00000	.83500	835.00	.7530-01	.6010-01	.6770-01	.1306-02	.1075-02	.1212-02	.7720	5.531	549.9

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) OFB'TER FUSELAGE

RUN NUMBER	THETA	V/L	T/C NO	H/HREF P=0.9	H/HREF R=1.3	H/HREF (TAW)	H(GTO) BTU/R FT2SEC	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTTOT DEG. R /SEC	TW DEG. R
244	32.000	.970.00	835.00	6630-01	.5470-01	.6240-01	.1187-02	.9777-03	.1116-02	.7040	5.219	547.6
244	32.000	.95000	837.00	.4020-01	.3320-01	.3800-01	.7199-03	.5933-03	.6804-03	.4280	3.281	546.8
244	32.000	.97500	839.00	.2350-01	.1940-01	.2230-01	.4200-03	.3463-03	.3981-03	.2500	1.990	545.0
244	32.000	1.0150	833.00	.3330-01	.2790-01	.2100-01	.6555-03	.4997-03	.5537-03	.3580	2.894	549.4
244	32.000	1.0300	840.00	.3239	.2648	.2851	.5933-02	.4737-02	.5278-02	3.295	25.40	572.1
244	32.000	1.0450	841.00	.4267	.3487	.3887	.7833-02	.6237-02	.6953-02	4.324	32.72	574.4
244	32.000	1.0600	842.00	.3389	.2773	.3089	.6963-02	.4950-02	.5525-02	3.461	28.19	570.0
244	45.000	.98500	843.00	.1531-01	.1800-02	.1030-01	.1641-03	.1523-03	.1841-03	.1120	.8320	535.2
244	45.000	.95000	847.00	.1673-02	.1000-02	.1200-02	.2334-04	.1732-04	.2034-04	.1300-01	.9500-01	534.0
244	45.000	.97500	848.00	.5000-03	.7000-03	.9000-03	.1559-04	.1689-04	.1059-04	.9000-02	.7100-01	533.7
244	75.000	.97500	849.00	.7000-03	.6000-03	.7000-03	.1309-04	.1083-04	.1309-04	.6000-02	.5500-01	533.6
244	85.000	.97500	849.00	.5000-03	.1000-03	.4000-03	.6515-05	.7129-05	.6515-05	.5000-02	.3500-01	533.5
244	180.00	.9000-01	531.00	.1119	.9240-01	.1119	.2032-02	.1653-02	.2032-02	1.203	8.950	540.1
244	180.00	.9000-01	531.00	.3110-01	.2570-01	.3110-01	.5555-03	.4500-03	.5555-03	.3360	2.424	537.0
244	180.00	.9000-01	531.00	.1540-01	.1270-01	.1540-01	.2335-03	.2278-03	.2335-03	.1650	1.064	536.8
244	180.00	.9000-01	531.00	.1050-01	.0800-02	.1050-01	.1930-03	.1571-03	.1930-03	.1150	.7340	536.5
244	180.00	.9000-01	531.00	.1110-01	.0900-02	.1110-01	.1594-03	.1648-03	.1594-03	.1200	.7920	536.7
244	180.00	.9000-01	531.00	.1770-01	.1400-01	.1770-01	.3160-03	.2612-03	.3160-03	.1910	1.335	536.5
244	180.00	.9000-01	531.00	.2500-01	.2110-01	.2500-01	.4573-03	.3780-03	.4573-03	.2760	1.931	536.7
244	180.00	.9000-01	531.00	.4500-01	.4520-01	.5470-01	.9778-03	.8078-03	.9778-03	3.290	3.849	538.6
244	180.00	.9000-01	531.00	.6500-01	.6060-01	.6560-01	.1442-02	.1191-02	.1442-02	.8680	4.849	538.7
244	180.00	.9000-01	531.00	.1730-01	.1400-01	.1730-01	.3092-03	.2548-03	.3092-03	.1870	1.160	535.6
244	180.00	.9000-01	531.00	.3300-02	.2600-02	.3300-02	.5350-04	.4955-04	.5350-04	.3500-01	.3100	534.5
244	180.00	.9000-01	531.00	.2800-02	.2300-02	.2800-02	.4954-04	.4558-04	.4954-04	.3000-01	.2560	534.7
244	180.00	.9000-01	531.00	.2100-02	.2500-02	.3100-02	.5514-04	.4561-04	.5514-04	.3300-01	.2760	534.4
244	180.00	.9000-01	531.00	.2500-02	.2100-02	.2500-02	.4338-04	.3754-04	.4338-04	.2800-01	.2210	533.9

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

DATE 25 AUG 76

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

FUSELAGE

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = 22.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	P-41 MODEL DEG.	P0 PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
238	7.940	1.009	40.05	.0000	180.0	209.7	.2300-01	1275.	93.70	.9950	3765.	.2020-04
239	7.940	1.010	40.02	.0000	180.0	210.2	.2300-01	1276.	93.70	.9980	3767.	.2023-04

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
238	.00000	.00000	1.0000	.6077	.4988	.5427	.1484-01	.1218-01	.1325-01	8.658	47.75	563.7
238	.00000	.50000-02	2.0000	.7082	.5797	.5797	.1729-01	.1415-01	.1415-01	9.939	68.22	572.4
238	.00000	.10000-01	3.0000	.6147	.5039	.5099	.1501-01	.1230-01	.1245-01	8.700	58.04	567.6
238	.00000	.20000-01	4.0000	.4115	.3392	.3526	.1005-01	.8281-02	.8610-02	6.002	33.33	549.8
238	.00000	.30000-01	5.0000	.3414	.2814	.2973	.8337-02	.6870-02	.7258-02	4.976	27.63	550.3
238	.00000	.40000-01	6.0000	.2777	.2290	.2446	.6780-02	.5591-02	.5972-02	4.065	22.60	547.6
238	.00000	.50000-01	7.0000	.2772	.2281	.2459	.6767-02	.5568-02	.6004-02	4.006	26.89	555.2
238	.00000	.60000-01	8.0000	.2826	.2327	.2525	.6900-02	.5682-02	.6164-02	4.105	26.02	552.2
238	.00000	.70000-01	9.0000	.2446	.2013	.2199	.5972-02	.4915-02	.5369-02	3.539	24.51	554.6
238	.00000	.80000-01	10.000	.2009	.1655	.1816	.4906-02	.4041-02	.4435-02	2.920	20.25	551.9
238	.00000	.90000-01	11.000	.1896	.1563	.1721	.4630-02	.3817-02	.4203-02	2.771	17.60	548.7
238	.00000	1.0000+00	12.000	.1812	.1493	.1650	.4425-02	.3646-02	.4030-02	2.639	15.84	550.7
238	.00000	.12000	14.000	.1642	.1354	.1504	.4009-02	.3307-02	.3671-02	2.405	13.37	547.4
238	.00000	.13000	15.000	.1571	.1296	.1441	.3837-02	.3163-02	.3518-02	2.298	13.45	548.1
238	.00000	.14000	16.000	.1470	.1212	.1349	.3588-02	.2958-02	.3294-02	2.147	13.64	548.7
238	.00000	.16000	18.000	.1497	.1233	.1377	.3654-02	.3011-02	.3361-02	2.182	13.47	549.9
238	.00000	.17000	19.000	.1517	.1250	.1397	.3703-02	.3051-02	.3411-02	2.209	14.01	550.7
238	.00000	.18000	20.000	.1506	.1241	.1388	.3678-02	.3030-02	.3390-02	2.193	13.91	551.0
238	.00000	.19000	21.000	.1497	.1235	.1382	.3656-02	.3014-02	.3375-02	2.189	13.90	548.5

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/R FT2SEC	H(10) BTU/R FT2SEC	H(TAN) BTU/R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
238	.00000	.20000	22.000	.1449	.1194	.1333	.3538-02	.2915-02	.3270-02	2.111	13.39	550.5
238	.00000	.22500	23.000	.1338	.1103	.1233	.3266-02	.2692-02	.3026-02	1.952	12.39	549.6
238	.00000	.25000	801.00	.1320	.1088	.1225	.3222-02	.2655-02	.2990-02	1.924	12.21	549.8
238	.00000	.30000	802.00	.1214	.1000+00	.1127	.2964-02	.2442-02	.2751-02	1.769	11.22	550.5
239	.00000	.35000	803.00	.1233	.1015	.1144	.3010-02	.2479-02	.2793-02	1.788	11.33	553.1
238	.00000	.40000	804.00	.1206	.9930-01	.1119	.2946-02	.2425-02	.2733-02	1.749	11.41	553.2
238	.00000	.45000	805.00	.1094	.9000-01	.1014	.2670-02	.2197-02	.2477-02	1.582	10.62	554.8
238	.00000	.50000	806.00	.9660-01	.7950-01	.8960-01	.2359-02	.1941-02	.2188-02	1.396	9.666	555.2
238	.00000	.55000	807.00	.9240-01	.7600-01	.8570-01	.2257-02	.1856-02	.2092-02	1.331	9.615	557.5
238	.00000	.60000	808.00	.8660-01	.7120-01	.8030-01	.2114-02	.1738-02	.1960-02	1.247	9.199	557.2
238	.00000	.65000	809.00	.8120-01	.6670-01	.7520-01	.1982-02	.1629-02	.1837-02	1.165	8.581	559.5
238	.00000	.70000	810.00	.7760-01	.6350-01	.7200-01	.1896-02	.1558-02	.1757-02	1.114	8.490	559.6
238	.00000	.75000	811.00	.8340-01	.6850-01	.7730-01	.2037-02	.1674-02	.1888-02	1.197	8.822	559.4
238	.00000	.80000	812.00	.8460-01	.6950-01	.7840-01	.2065-02	.1697-02	.1915-02	1.214	8.949	559.2
238	.00000	.85000	813.00	.7940-01	.6520-01	.7440-01	.1938-02	.1525-02	.1816-02	1.141	8.699	558.5
238	.00000	.90000	814.00	.7600-01	.6250-01	.7140-01	.1854-02	.1525-02	.1742-02	1.094	7.814	557.0
239	.00000	.92500	815.00	.4970-01	.4090-01	.4680-01	.1213-02	.9978-03	.1143-02	.7180	5.894	554.9
238	.00000	.95000	816.00	.2850-01	.2340-01	.2690-01	.6932-03	.5720-03	.6567-03	.4110	3.376	555.3
238	.00000	.97500	817.00	.4340-01	.3980-01	.4580-01	.1181-02	.9708-03	.1118-02	.6940	5.685	559.4
238	.00000	1.0150	818.00	.1846	.1505	.1743	.4506-02	.3674-02	.4270-02	2.533	18.43	585.0
238	.00000	1.0300	819.00	.5334	.4384	.5107	.1317-01	.1070-01	.1247-01	7.280	52.72	594.4
238	.00000	1.0600	821.00	.4284	.3478	.4055	.1046-01	.8493-02	.9901-02	5.756	47.13	596.9
238	10.000	1.5000	89.000	8300-02	6900-02	8300-02	.2026-03	.1676-03	.2026-03	1.240	.7480	536.0
238	11.500	2.0000	91.000	9100-02	7500-02	9100-02	.2212-03	.1831-03	.2212-03	.1350	.8410	535.6
238	14.000	.50000-01	90.000	1000-03	1000-03	1000-03	.3086-05	.2533-05	.3086-05	.2000-02	.1100-01	536.4
238	17.500	40000	823.00	1189	9770-01	1102	.2903-02	.2387-02	.2692-02	1.710	13.51	558.1
238	17.500	50000	824.00	1048	.8610-01	.9710-01	.2559-02	.2102-02	.2372-02	1.501	11.85	560.4
238	17.500	60000	825.00	7040-01	.5750-01	.6530-01	.1720-02	.1413-02	.1594-02	1.009	8.921	560.3
238	17.500	70000	826.00	9180-01	.7540-01	.8510-01	.2241-02	.1840-02	.2077-02	1.312	9.658	561.7
238	17.500	80000	827.00	7990-01	.6570-01	.7410-01	.1932-02	.1604-02	.1809-02	1.147	8.456	559.2
238	17.500	90000	828.00	.6580-01	.5410-01	.6180-01	.1607-02	.1321-02	.1509-02	.9480	7.498	556.8
238	20.000	92500	971.00	1256	.1031	.1256	.3036-02	.2517-02	.3066-02	1.792	13.18	562.8
238	20.000	95000	975.00	1293	.1062	.1293	.3157-02	.2593-02	.3157-02	1.851	13.63	560.9
238	20.000	97500	980.00	.9550-01	.7850-01	.9550-01	.2332-02	.1917-02	.2332-02	1.374	10.13	557.8
238	24.000	20000	93.000	1050-01	.8700-02	1050-01	.2572-03	.2128-03	.2572-03	1.570	.9770	535.9
238	30.000	92500	970.00	1220	.1004	.1220	.2980-02	.2451-02	.2980-02	1.759	12.98	556.7
238	30.000	95000	974.00	.1447	.1189	.1447	.3534-02	.2904-02	.3534-02	2.074	15.28	560.2
238	30.000	97500	979.00	.8940-01	.7380-01	.8940-01	.2184-02	.1801-02	.2184-02	1.309	9.706	547.6
238	32.000	40000	83100*10	1382	.1137	.1281	.3373-02	.2775-02	.3373-02	1.638	11.68	559.8
238	32.000	50000	832.00	.1142	.9390-01	1059	.2789-02	.2292-02	.2585-02	1.996	13.82	555.4
238	32.000	60000	833.00	.9910-01	.8140-01	.9190-01	.2420-02	.1988-02	.2243-02	1.418	9.487	561.5
238	32.000	70000	834.00	.7800-01	.6400-01	.7230-01	.1915-02	.1563-02	.1765-02	1.111	8.448	563.9
239	32.000	80000	835.00	.7370-01	.6050-01	.6830-01	.1799-02	.1478-02	.1668-02	1.057	7.535	559.8

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B18)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
238	32.000	.90000	836.00	.6880-01	.5660-01	.6470-01	.1680-02	.1382-02	.1579-02	.9930	7.331	556.1
238	32.000	.95000	837.00	.5700-01	.4690-01	.5390-01	.1393-02	.1146-02	.1316-02	.8240	6.298	555.2
238	32.000	.97500	838.00	.3220-01	.2650-01	.3050-01	.7859-03	.6466-03	.7443-03	.4650	3.677	555.7
238	32.000	1.0150	839.00	.5320-01	.4530-01	.5040-01	.1348-02	.1107-02	.1231-02	.7850	6.306	564.0
238	32.000	1.0300	840.00	.5498	.4457	.4983	.1343-01	.1088-01	.1218-01	7.321	55.61	601.8
238	32.000	1.0450	841.00	.5422	.4398	.4921	.1324-01	.1074-01	.1201-01	7.250	54.17	599.5
238	32.000	1.0600	842.00	.3889	.3166	.3535	.9466-02	.7730-02	.8633-02	5.297	42.73	589.3
238	45.000	.92500	959.00	.1930-01	.1650-01	.1990-01	.4853-03	.4022-03	.4853-03	.2950	2.206	538.1
238	45.000	.95000	973.00	.1500-02	.1200-02	.1500-02	.3576-04	.2959-04	.3576-04	.2200-01	.1630	535.5
238	45.000	.97500	978.00	.1300-02	.1000-02	.1300-02	.3092-04	.2551-04	.3092-04	.1900-01	.1410	535.0
238	75.000	.97500	977.00	.5000-03	.4000-03	.5000-03	.1261-04	.1044-04	.1261-04	.8000-02	.5800-01	534.9
238	85.000	.97500	976.00	.1000-03	.1000-03	.1000-03	.1512-05	.1252-05	.1512-05	.1000-02	.7000-02	534.6
238	180.00	.10000-01	59.000	.1059	.6740-01	.1059	.2585-02	.2135-02	.2585-02	1.563	11.62	542.5
238	180.00	.25000-01	60.000	.2810-01	.2320-01	.2810-01	.6850-03	.5664-03	.6850-03	.4170	3.006	538.2
238	180.00	.50000-01	61.000	.1340-01	.1110-01	.1340-01	.3269-03	.2703-03	.3269-03	.1990	1.273	537.5
238	180.00	.75000-01	62.000	.1110-01	.9200-02	.1110-01	.2720-03	.2249-03	.2720-03	.1860	1.059	537.5
238	180.00	.10000+00	63.000	.1530-01	.1260-01	.1530-01	.3726-03	.3081-03	.3726-03	.2270	1.492	538.0
238	180.00	.12500	64.000	.2190-01	.1810-01	.2190-01	.5336-03	.4412-03	.5336-03	.3250	2.269	538.1
238	180.00	.15000	65.000	.3190-01	.2640-01	.3190-01	.7785-03	.6438-03	.7785-03	.4740	3.309	538.4
238	180.00	.16000	66.000	.7920-01	.6540-01	.7920-01	.1935-02	.1598-02	.1935-02	1.170	6.521	542.5
238	180.00	.17000	67.000	.9550-01	.7970-01	.9550-01	.2357-02	.1947-02	.2357-02	1.425	7.945	542.5
238	180.00	.20000	69.000	.1880-01	.1550-01	.1880-01	.4594-03	.3799-03	.4594-03	.2800	1.739	537.3
238	180.00	.40100	72.000	.3500-02	.2900-02	.3500-02	.8645-04	.7154-04	.8645-04	.5300-01	.4510	535.5
238	180.00	.50000	73.000	.4600-02	.3800-02	.4600-02	.1133-03	.9374-04	.1133-03	.6900-01	.5910	535.8
238	180.00	.60100	74.000	.4100-02	.3400-02	.4100-02	.9948-04	.8232-04	.9948-04	.6100-01	.5020	535.7
238	180.00	.70100	75.000	.4000-02	.3300-02	.4000-02	.9858-04	.8160-04	.9858-04	.6000-01	.4830	534.6

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B12)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
 BDFLAP = 22.00 MACH = 8.0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	PHO SLUGS /FT3
225	8.000	3.755	40.10	.0000	180.0	863.5	.8800-01	1345.	97.50	3.962	3870.	.7614-04
226	8.000	3.757	40.09	.0000	180.0	863.8	.8800-01	1345.	97.50	3.964	3870.	.7617-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R	ST FR R =
225	.7846-07	.4918-01	.4000-01	0.0175
226	.7846-07	.4918-01	.4000-01	.2096-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	HISTO BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
225	.00000	.00000	1.0000	.5978	.4906	.5338	.2940-01	.2412-01	.2625-01	18.09	98.19	595.2
225	.00000	.50000-02	2.0000	.6982	.5694	.5694	.3433-01	.2800-01	.2800-01	20.41	137.1	616.0
225	.00000	.10000-01	3.0000	.6169	.5045	.5105	.3034-01	.2481-01	.2510-01	18.31	119.8	606.9
225	.00000	.20000-01	4.0000	.4390	.3623	.3766	.2159-01	.1782-01	.1852-01	13.72	75.23	575.0
225	.00000	.30000-01	5.0000	.3358	.2777	.2931	.1651-01	.1365-01	.1441-01	10.61	58.38	567.9
225	.00000	.40000-01	6.0000	.3068	.2540	.2710	.1509-01	.1249-01	.1332-01	9.765	53.86	563.2
225	.00000	.50000-01	7.0000	.2749	.2267	.2442	.1352-01	.1115-01	.1201-01	8.541	56.66	573.7
225	.00000	.60000-01	8.0000	.2814	.2323	.2512	.1143-01	.1143-01	.1238-01	8.817	55.31	573.2
225	.00000	.70000-01	9.0000	.2487	.2050	.2237	.1223-01	.1008-01	.1100-01	7.726	52.86	578.6
225	.00000	.80000-01	10.000	.1991	.1645	.1803	.9793-02	.8089-02	.8855-02	6.252	42.92	572.0
225	.00000	.90000-01	11.000	.1886	.1560	.1714	.8273-02	.7672-02	.8431-02	5.978	37.64	565.7
225	.00000	.10000+00	12.000	.1778	.1471	.1622	.8742-02	.7232-02	.7976-02	5.630	33.52	566.3
225	.00000	.12000	14.000	.1610	.1334	.1477	.7916-02	.6558-02	.7262-02	5.143	28.40	562.5
225	.00000	.13000	15.000	.1554	.1286	.1427	.7640-02	.6326-02	.7019-02	4.949	28.75	562.5
225	.00000	.14000	16.000	.1426	.1180	.1311	.7012-02	.5804-02	.6449-02	4.531	28.55	564.1
225	.00000	.16000	18.000	.1512	.1250	.1393	.7436-02	.6149-02	.6849-02	4.777	29.21	567.9
225	.00000	.17000	19.000	.1507	.1246	.1399	.7412-02	.6125-02	.6834-02	4.746	29.82	570.0
225	.00000	.18000	20.000	.1509	.1247	.1392	.7421-02	.6131-02	.6847-02	4.743	29.78	571.2
225	.00000	.19000	21.000	.1506	.1245	.1392	.7404-02	.6124-02	.6843-02	4.761	29.95	567.3

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(OTO) BTU/ R FT2SEC	H(OTO) BTU/ R FT2SEC	H(OTAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
225	.00000	.20000	22.000	.1442	.1191	.1334	.7092-02	.5059-02	.6559-02	4.532	28.46	571.3
225	.00000	.22500	23.000	.1330	.1099	.1234	.6542-02	.5407-02	.6067-02	4.190	26.32	570.0
225	.00000	.25000	801.00	.1299	.1073	.1206	.6387-02	.5276-02	.5932-02	4.081	25.62	571.4
225	.00000	.30000	802.00	.1215	.1003	.1129	.5977-02	.4934-02	.5550-02	3.805	23.86	573.7
225	.00000	.35000	803.00	.1238	.1094	.1232	.6532-02	.5381-02	.6060-02	4.110	25.68	581.1
225	.00000	.40000	804.00	.1234	.1016	.1145	.6068-02	.4997-02	.5629-02	3.808	24.47	582.8
225	.00000	.45000	805.00	.1105	.9030-01	.1024	.5433-02	.4470-02	.5038-02	3.392	22.43	586.0
225	.00000	.50000	806.00	.1038	.8530-01	.9620-01	.5103-02	.4135-02	.4730-02	3.173	21.60	588.6
225	.00000	.55000	807.00	.1096	.8930-01	.1015	.5388-02	.4421-02	.4990-02	3.314	23.99	595.2
225	.00000	.60000	808.00	.1328	.1089	.1229	.6529-02	.5353-02	.6045-02	3.998	28.90	598.1
225	.00000	.65000	809.00	.2160	.1762	.1996	.1062-01	.6664-02	.9814-02	6.321	45.30	615.3
225	.00000	.70000	810.00	.3228	.2620	.2976	.1587-01	.1288-01	.1463-01	9.200	67.71	630.7
225	.00000	.75000	811.00	.3627	.2940	.3343	.1774-01	.1446-01	.1644-01	10.26	72.36	635.1
225	.00000	.80000	812.00	.3646	.2955	.3360	.173-01	.1453-01	.1652-01	10.30	73.13	635.8
225	.00000	.85000	813.00	.3430	.2779	.3197	.1687-01	.1366-01	.1572-01	9.680	71.05	636.4
225	.00000	.90000	814.00	.3272	.2657	.3060	.1609-01	.1307-01	.1505-01	9.348	64.40	629.5
225	.00000	.92500	815.00	.2858	.2325	.2682	.1405-01	.1143-01	.1319-01	8.255	65.50	623.0
225	.00000	.95000	816.00	.2880	.2337	.2708	.1416-01	.1149-01	.1332-01	8.204	64.84	631.0
225	.00000	.97500	817.00	.3082	.2493	.2903	.1515-01	.1226-01	.1428-01	8.626	67.85	641.2
225	.00000	1.0150	818.00	.6029	.4787	.5669	.2965-01	.2354-01	.2788-01	15.38	106.3	691.6
225	.00000	1.0300	819.00	.5841	.4659	.5499	.2872-01	.2291-01	.2704-01	15.22	105.7	680.5
225	.00000	1.0600	821.00	.4468	.3553	.4205	.2197-01	.1750-01	.2068-01	11.57	90.87	683.7
225	.00000	1.5000	89.000	.5900-02	.4900-02	.5900-02	.2908-03	.2423-03	.2908-03	.1950	1.180	538.3
225	11.500	.20000	91.000	.8300-02	.6900-02	.8300-02	.4058-03	.3379-03	.4058-03	.2720	1.686	540.3
225	14.000	.50000-01	90.000	.7500-02	.6300-02	.7500-02	.3694-03	.3076-03	.3694-03	.2470	1.492	540.7
225	17.500	.40000	823.00	.1122	.9210-01	.1039	.5517-02	.4530-02	.5111-02	3.404	26.43	593.4
225	17.500	.50000	824.00	.1067	.8750-01	.9880-01	.5248-02	.4300-02	.4858-02	3.202	24.77	600.4
225	17.500	.60000	825.00	.9710-01	.7950-01	.8990-01	.4777-02	.3909-02	.4420-02	2.896	25.05	604.0
225	17.500	.70000	826.00	.3702	.2999	.3411	.1821-01	.1475-01	.1677-01	10.44	74.04	637.0
225	17.500	.80000	827.00	.3571	.2895	.3291	.1756-01	.1423-01	.1618-01	10.11	71.81	634.5
225	17.500	.90000	828.00	.2875	.2335	.2689	.1414-01	.1148-01	.1322-01	8.215	62.66	629.4
225	20.000	.92500	971.00	.1818	.1487	.1818	.8938-02	.7311-02	.8938-02	5.403	38.90	605.9
225	20.000	.95000	975.00	.2458	.2027	.2488	.1234-01	.9959-02	.1224-01	7.234	51.76	619.2
225	20.000	.97500	980.00	.2298	.1875	.2298	.1130-01	.9219-02	.1130-01	6.732	48.27	614.6
225	24.000	.20000	93.000	.1290-01	.1080-01	.1290-01	.6363-03	.5299-03	.6363-03	.4260	2.642	540.7
225	30.000	.92500	970.00	.1442	.1185	.1442	.7092-02	.5829-02	.7092-02	4.404	31.97	589.4
225	30.000	.95000	974.00	.2028	.1659	.2028	.9973-02	.8158-02	.9973-02	6.029	43.41	605.9
225	30.000	.97500	979.00	.1292	.1067	.1292	.6355-02	.5249-02	.6355-02	4.055	29.68	572.4
225	32.000	.40000	83100+10	.1369	.1126	.1269	.6730-02	.5539-02	.6241-02	4.208	28.70	585.1
225	32.000	.50000	832.00	.1108	.9090-01	.1026	.5449-02	.4469-02	.5046-02	3.343	23.40	596.9
225	32.000	.60000	833.00	.1274	.1043	.1179	.6267-02	.5128-02	.5798-02	3.794	24.85	605.0
225	32.000	.70000	834.00	.2043	.1652	.1886	.1005-01	.8174-02	.9274-02	5.895	43.53	623.8
225	32.000	.80000	835.00	.3277	.2661	.3022	.1611-01	.1308-01	.1486-01	9.357	64.45	629.7

AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.5	H/HREF R=1.0	H/HREF (TAW)	H19TO BTU/ R F12SEC	H10TO BTU/ R F12SEC	H1TAW BTU/ R F12SEC	QDOT BTU/ F12SEC	OTWDT DEG. R /SEC	TW DEG. R
225	32.000	.90000	836.00	.2968	.2413	.2777	.1459-01	.1187-01	.1366-01	8.540	60.92	625.3
225	32.000	.95000	837.00	.2955	.2406	.2781	.1453-01	.1183-01	.1368-01	8.572	63.41	620.4
225	32.000	.97500	838.00	.2893	.2348	.2728	.1423-01	.1155-01	.1342-01	8.237	62.77	631.4
225	32.000	1.0150	839.00	.5654	.4442	.5050	.2781-01	.2184-01	.2483-01	13.70	102.0	717.7
225	32.000	1.0300	840.00	.5460	.4334	.4901	.2685-01	.2131-01	.2410-01	13.90	101.0	692.8
225	32.000	1.0450	841.00	.5513	.4377	.4949	.2711-01	.2152-01	.2434-01	14.04	100.3	692.5
225	32.000	1.0600	842.00	.4289	.3430	.3865	.2109-01	.1687-01	.1900-01	11.32	87.69	673.6
225	45.000	.92500	959.00	.4010-01	.3330-01	.4010-01	.1971-02	.1637-02	.1971-02	11.298	9.604	551.8
225	45.000	.95000	973.00	.3000-02	.2500-02	.3000-02	.1471-03	.1224-03	.1471-03	.9800-01	.7280	544.1
225	45.000	.97500	978.00	.2400-02	.2000-02	.2400-02	.1173-03	.9762-04	.1173-03	.7800-01	.5810	543.5
225	75.000	.97500	977.00	.5000-03	.4000-03	.5000-03	.2491-04	.2073-04	.2491-04	.1700-01	.1230	543.4
225	85.000	.97500	976.00	.8000-03	.7000-03	.8000-03	.3273-04	.3223-04	.3873-04	.2600-01	.1920	543.2
225	180.00	.10000-01	59.000	.1007	.8370-01	.1007	.4951-02	.4116-02	.4951-02	3.282	24.33	547.6
225	180.00	.25000-01	60.000	.2490-01	.2070-01	.2490-01	.1222-02	.1018-02	.1222-02	.8200	5.902	539.8
225	180.00	.50000-01	61.000	.1280-01	.1070-01	.1280-01	.6315-03	.5261-03	.6315-03	.4240	2.706	539.0
225	180.00	.75000-01	62.000	.510-01	.1250-01	.1510-01	.7405-03	.6167-03	.7405-03	.4960	3.164	540.4
225	180.00	.10000+00	63.000	.2560-01	.2130-01	.2560-01	.1258-02	.1047-02	.1258-02	.8410	5.513	542.1
225	180.00	.12500	64.000	.2990-01	.2480-01	.2990-01	.1468-02	.1222-02	.1468-02	.9790	6.818	543.6
225	180.00	.15000	65.000	.3540-01	.2950-01	.3540-01	.1743-02	.1450-02	.1743-02	1.162	8.088	543.7
225	180.00	.16000	66.000	.9310-01	.7730-01	.9310-01	.4580-02	.3802-02	.4580-02	3.008	16.68	553.5
225	180.00	.17000	67.000	.1179	.9790-01	.1179	.5798-02	.4813-02	.5798-02	3.810	21.12	553.2
225	180.00	.20000	69.000	.1660-01	.1380-01	.1660-01	.8173-03	.6803-03	.8173-03	.5460	3.381	542.4
225	180.00	.40100	72.000	.6500-02	.5500-02	.6500-02	.3220-03	.2680-03	.3220-03	.2150	1.829	541.9
225	180.00	.50000	73.000	.9000-02	.7500-02	.9000-02	.4448-03	.3703-03	.4448-03	.2970	2.523	542.5
225	180.00	.60100	74.000	.7000-02	.5900-02	.7000-02	.3465-03	.2883-03	.3465-03	.2310	1.999	543.2
225	180.00	.70100	75.000	.5100-02	.4200-02	.5100-02	.2504-03	.2084-03	.2504-03	.1670	1.333	542.2



AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

FUSELAGE

PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = 5.000 SPDRK = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.5	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. P	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
264	7.900	.5448	20.00	.0000	180.0	110.2	.1200-01	1263.	93.70	.5350	3747.	.1097-04
265	7.900	.5419	19.98	.0000	180.0	109.8	.1200-01	1265.	93.80	.5330	3749.	.1092-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
264	.7545-07			0.0175
265	.7553-07			.5488-01 .5502-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
264	.00000	.00000	1.0000	.9058	.7391	.7561	.1619-01	.1321-01	.1352-01	9.072	49.70	576.8
264	.00000	.50000-02	2.0000	.7431	.6066	.6205	.1329-01	.1084-01	.1109-01	7.456	51.08	575.9
264	.00000	.10000-01	3.0000	.5754	.4714	.5027	.1029-01	.8428-02	.8988-02	5.890	39.36	564.5
264	.00000	.20000-01	4.0000	.3278	.2693	.3016	.5861-02	.4826-02	.5393-02	3.451	19.18	548.2
264	.00000	.30000-01	5.0000	.2308	.1902	.2175	.4127-02	.3400-02	.3885-02	2.440	13.58	545.7
264	.00000	.40000-01	6.0000	.1858	.1532	.1775	.3321-02	.2739-02	.3173-02	1.972	10.99	543.3
264	.00000	.50000-01	7.0000	.1714	.1412	.1655	.3065-02	.2525-02	.2959-02	1.810	12.20	546.6
264	.00000	.60000-01	8.0000	.1647	.1357	.1602	.2944-02	.2426-02	.2864-02	1.744	11.09	544.9
264	.00000	.70000-01	9.0000	.1401	.1155	.1374	.2505-02	.2065-02	.2456-02	1.483	10.32	545.1
264	.00000	.80000-01	10.0000	.1095	.9030-01	.1080	.1958-02	.1615-02	.1931-02	1.163	8.105	543.0
264	.00000	.90000-01	11.0000	.1020	.8410-01	.1009	.1823-02	.1504-02	.1805-02	1.085	6.911	542.2
264	.00000	.10000-00	12.0000	.8910-01	.7350-01	.8850-01	.1593-02	.1314-02	.1583-02	.9480	5.717	541.7
264	.00000	.12000	14.0000	.7780-01	.6420-01	.7770-01	.1391-02	.1148-02	.1390-02	.8310	4.635	540.1
264	.00000	.13000	15.0000	.7250-01	.5930-01	.7250-01	.1296-02	.1070-02	.1297-02	.7740	4.544	540.2
264	.00000	.14000	16.0000	.6680-01	.5520-01	.5700-01	.1195-02	.9861-03	.1197-02	.7130	4.547	540.4
264	.00000	.16000	18.0000	.6700-01	.5530-01	.6730-01	.1198-02	.9890-03	.1203-02	.7150	4.432	540.5
264	.00000	.17000	19.0000	.6440-01	.5320-01	.6480-01	.1152-02	.9508-03	.1158-02	.6870	4.383	540.6
264	.00000	.18000	20.0000	.6440-01	.5310-01	.6480-01	.1151-02	.9501-03	.1151-02	.6870	4.379	540.6
264	.00000	.19000	21.0000	.6290-01	.5200-01	.6340-01	.1125-02	.9289-03	.1133-02	.6730	4.295	538.8

AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
264	.00000	.20000	22.000	.6160-01	.5030-01	.6220-31	.1102-02	.9094-03	.1111-02	.6570	4.193	540.4
264	.00000	.22500	23.000	.5480-01	.4520-01	.5540-31	.9797-03	.6085-03	.9904-03	.5850	3.730	540.0
264	.00000	.25000	801.00	.5380-01	.4440-01	.5450-31	.9623-03	.6085-03	.9904-03	.5850	3.730	540.3
264	.00000	.30000	802.00	.4850-01	.4000-01	.4910-31	.8669-03	.7154-03	.8779-03	.5170	3.663	540.5
264	.00000	.35000	803.00	.5240-01	.4320-01	.5310-31	.9369-03	.7729-03	.9488-03	.5580	3.556	541.6
264	.00000	.40000	804.00	.4720-01	.3890-01	.4780-31	.8433-03	.6958-03	.8540-03	.5030	3.299	541.0
264	.00000	.45000	805.00	.4250-01	.3510-01	.4310-31	.7607-03	.6275-03	.7703-03	.4530	3.062	541.6
264	.00000	.50000	806.00	.3940-01	.3250-01	.3990-31	.7042-03	.5809-03	.7132-03	.4190	2.922	541.7
264	.00000	.55000	807.00	.3700-01	.3050-01	.3750-31	.6618-03	.5458-03	.6702-03	.3930	2.924	542.5
264	.00000	.60000	808.00	.3360-01	.2770-01	.3400-31	.6009-03	.4955-03	.6085-03	.3570	2.656	542.4
264	.00000	.65000	809.00	.3130-01	.2580-01	.3170-31	.5589-03	.4610-03	.5660-03	.3320	2.469	542.7
264	.00000	.70000	810.00	.2950-01	.2430-01	.2990-31	.5275-03	.4351-03	.5342-03	.3140	2.411	542.5
264	.00000	.75000	811.00	.3230-01	.2670-01	.3270-31	.5780-03	.4768-03	.5853-03	.3440	2.556	542.1
264	.00000	.80000	812.00	.3360-01	.2770-01	.3410-31	.6013-03	.4961-03	.6089-03	.3580	2.662	541.6
264	.00000	.85000	813.00	.2930-01	.2420-01	.3000-31	.5247-03	.4329-03	.5367-03	.3130	2.407	540.9
264	.00000	.90000	814.00	.2620-01	.2330-01	.2890-31	.5048-03	.4167-03	.5174-03	.3020	2.172	539.7
264	.00000	.92500	815.00	.2160-01	.1780-01	.2220-31	.3858-03	.3185-03	.3663-03	.2310	1.906	539.6
264	.00000	.95000	816.00	.1960-01	.1630-01	.2040-31	.3540-03	.2922-03	.3645-03	.2110	1.748	539.9
264	.00000	.97500	817.00	.1870-01	.1540-01	.1930-31	.3346-03	.2761-03	.3452-03	.1990	1.649	540.8
264	.00000	1.0150	818.00	.8300-02	.6900-02	.8600-32	.1490-03	.1229-03	.1542-03	.8900-01	.6610	540.9
264	.00000	1.0300	819.00	.9700-02	.8000-02	.1000-31	.1737-03	.1433-03	.1797-03	.1040	.7760	540.8
264	.00000	1.0600	821.00	.6200-02	.5100-02	.6530-32	.1115-03	.9201-04	.1154-03	.6600-01	.5590	541.3
264	.00000	1.1500	822.00	.2030-01	.1680-01	.2030-31	.3630-03	.2999-03	.3630-03	.2180	1.318	536.4
264	.00000	1.4000	823.00	.3250-01	.2690-01	.3250-31	.5819-03	.4808-03	.5819-03	.3490	2.171	536.5
264	.00000	1.5000	824.00	.1010-01	.8400-02	.1010-31	.1807-03	.1493-03	.1807-03	.1090	.6580	535.3
264	.00000	1.7500	825.00	.5230-01	.4320-01	.5300-31	.9358-03	.7717-03	.9477-03	.5560	4.426	543.0
264	.00000	1.7500	826.00	.4660-01	.3840-01	.4710-31	.8323-03	.6850-03	.8429-03	.4930	3.923	544.5
264	.00000	1.7500	827.00	.3270-01	.2690-01	.3710-31	.5843-03	.4817-03	.5917-03	.3470	3.088	544.0
264	.00000	1.7500	828.00	.3900-01	.3210-01	.3950-31	.6959-03	.5746-03	.7057-03	.4140	3.074	543.3
264	.00000	1.7500	829.00	.3370-01	.2780-01	.3410-31	.6024-03	.4959-03	.6101-03	.3580	2.663	542.3
264	.00000	1.7500	830.00	.2850-01	.2350-01	.2920-31	.5094-03	.4204-03	.5221-03	.3040	2.423	540.4
264	.00000	1.7500	831.00	.1670-01	.1380-01	.1670-31	.2989-03	.2467-03	.2989-03	.1790	1.329	539.4
264	.00000	1.7500	832.00	.3060-01	.2530-01	.3060-31	.5473-03	.4516-03	.5473-03	.3260	2.427	540.8
264	.00000	1.7500	833.00	.2490-01	.2060-01	.2490-31	.458-03	.3680-03	.4458-03	.2660	1.982	539.7
264	.00000	1.7500	834.00	.3260-01	.2700-01	.3260-31	.5833-03	.4819-03	.5837-03	.3500	2.176	536.6
264	.00000	1.7500	835.00	.8500-02	.7100-02	.8600-32	.1531-03	.1264-03	.1531-03	.9200-01	.6840	537.4
264	.00000	1.7500	836.00	.1330-01	.1100-01	.1330-31	.2379-03	.1965-03	.2379-03	.1430	1.062	537.8
264	.00000	1.7500	837.00	.7100-01	.5860-01	.7100-31	.1270-02	.1047-02	.1286-02	.7540	5.251	543.3
264	.00000	1.7500	838.00	.5880-01	.4840-01	.5950-31	.1051-02	.8661-03	.1064-02	.6220	4.471	544.9
264	.00000	1.7500	839.00	.5410-01	.4460-01	.5480-31	.9678-03	.7975-03	.9801-03	.5730	3.864	545.3
264	.00000	1.7500	840.00	.4680-01	.3660-01	.4740-31	.8369-03	.6901-03	.8476-03	.4970	3.821	543.1
264	.00000	1.7500	841.00	.3770-01	.3110-01	.3820-31	.6743-03	.5561-03	.6328-03	.4010	2.884	542.5
264	.00000	1.7500	842.00	.2710-01	.2240-01	.2780-31	.4845-03	.3997-03	.4965-03	.2890	2.148	540.8

REPRODUCIBILITY OF THE  
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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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(RV1B19)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	W DEG. R
264	32.000	.95000	837.00	.2470-01	.2040-01	.2550-01	.4420-03	.3647-03	.4551-03	.2630	2.026	541.4
264	32.000	.97500	838.00	.2910-01	.2400-01	.3010-01	.5210-03	.4299-03	.5377-03	.3110	2.474	541.1
264	32.000	1.0150	839.00	.1340-01	.1110-01	.1340-01	.2397-03	.1977-03	.2392-03	.1430	1.158	541.6
264	32.000	1.0300	840.00	.1330-01	.1150-01	.1390-01	.2490-03	.2054-03	.2435-03	.1480	1.160	541.7
264	32.000	1.0450	841.00	.1590-01	.1310-01	.1580-01	.2836-03	.2339-03	.2830-03	.1690	1.297	542.2
264	32.000	1.0600	842.00	.1400-01	.1160-01	.1400-01	.2509-03	.2070-03	.2503-03	.1490	1.234	541.5
264	45.000	.95000	973.00	.2000-03	.1000-03	.2000-03	.3130-05	.2587-05	.3130-05	.2000-02	.1400-01	534.8
264	45.000	.97500	978.00	.7000-03	.6000-03	.7000-03	.1254-04	.1037-04	.1254-04	.8000-02	.5600-01	534.6
264	75.000	.97500	977.00	.1000-02	.8000-03	.1000-02	.1713-04	.1416-04	.1713-04	.1000-01	.7700-01	534.7
264	85.000	.97500	976.00	.4400-02	.3600-02	.4400-02	.7875-04	.6509-04	.7875-04	.4700-01	.3540	534.9
264	180.00	.10000-01	59.000	.2872	.2363	.2872	.5135-02	.4225-02	.5135-02	3.011	22.29	550.7
264	180.00	.25000-01	60.000	.9500-01	.7920-01	.9500-01	.1717-02	.1416-02	.1717-02	1.023	7.359	541.3
264	180.00	.50000-01	61.000	.4710-01	.3890-01	.4710-01	.8.16-03	.6951-03	.8416-03	.5040	3.220	537.9
264	180.00	.75000-01	62.000	.2570-01	.2130-01	.2570-01	.4600-03	.3800-03	.460-03	.2760	1.763	537.0
264	180.00	.10000+00	63.000	.1690-01	.1390-01	.1680-01	.3006-03	.2484-03	.3006-03	.1810	1.188	536.3
264	180.00	.12500	64.000	.1190-01	.9900-02	.1190-01	.2132-03	.1761-03	.2132-03	.1280	.8950	536.2
264	180.00	.15000	65.000	.7800-02	.6400-02	.7800-02	.1392-03	.1151-03	.1392-03	.8400-01	.5860	535.4
264	180.00	.16000	66.000	.1460-01	.1230-01	.1480-01	.2650-03	.2190-03	.2650-03	.1590	.8910	535.8
264	180.00	.17000	67.000	.6330-01	.5230-01	.6330-01	.1132-02	.9345-03	.1132-02	.6760	3.774	539.8
264	180.00	.20000	69.000	.2080-01	.1720-01	.2080-01	.3711-03	.3066-03	.3711-03	.2230	1.385	536.5
264	180.00	.40100	72.000	.4600-02	.3800-02	.4600-02	.8207-04	.6782-04	.8207-04	.4900-01	.4210	535.9
264	180.00	.50000	73.000	.6500-02	.5400-02	.6500-02	.1170-03	.9665-04	.1170-03	.7000-01	.5990	536.1
264	180.00	.60100	74.000	.8800-02	.7300-02	.8800-02	.1571-03	.1298-03	.1571-03	.9400-01	.7790	536.3
264	180.00	.70100	75.000	.6900-02	.5700-02	.6900-02	.1237-03	.1023-03	.1237-03	.7400-01	.5960	535.2

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGEPAGE 346  
(RV1B19)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PJ PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
270	7.940	1.018	19.98	.0000	180.0	208.3	.2200-01	1264.	92.90	.9910	3749.	.2029-04
271	7.940	1.029	19.98	.0000	180.0	211.0	.2300-01	1263.	92.80	1.001	3748.	.2052-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
270	.7477-07	.4035-01	0.0175
271	.7470-07	.2445-01	.4012-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAY)	H19TO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
270	.00000	.00000	1.0000	.9039	.7342	.7514	.2200-01	.1787-01	.1829-01	12.03	65.45	590.7
270	.00000	.50000-02	2.0000	.7379	.5996	.6137	.1796-01	.1459-01	.1493-01	9.840	66.97	589.5
270	.00000	.10000-01	3.0000	.5555	.4538	.4844	.1352-01	.1104-01	.1179-01	7.629	50.76	573.1
270	.00000	.30000-01	5.0000	.2269	.1870	.2137	.5523-02	.4551-02	.5200-02	3.269	18.19	545.5
270	.00000	.40000-01	6.0000	.1977	.1630	.1883	.4811-02	.3966-02	.4597-02	2.854	15.89	544.3
270	.00000	.50000-01	7.0000	.1676	.1381	.1613	.4079-02	.3350-02	.3938-02	2.411	16.26	546.4
270	.00000	.60000-01	8.0000	.1609	.1325	.1564	.3912-02	.3224-02	.3806-02	2.316	14.73	545.5
270	.00000	.70000-01	9.0000	.1380	.1137	.1352	.3357-02	.2766-02	.3291-02	1.987	13.82	545.7
270	.00000	.80000-01	10.000	.1083	.0930-01	.1067	.2634-02	.2173-02	.2597-02	1.568	10.92	542.3
270	.00000	.90000-01	11.000	.8330-01	.8110-01	.9730-01	.2322-02	.1974-02	.2368-02	1.429	9.111	540.2
270	.00000	1.0000+00	12.000	.6760-01	.7230-01	.6710-01	.2133-02	.1760-02	.2119-02	1.274	7.684	540.3
270	.00000	.12000	14.000	.7620-01	.6290-01	.7610-01	.1854-02	.1531-02	.1851-02	1.111	6.209	537.9
270	.00000	.13000	15.000	.7300-01	.6030-01	.7300-01	.1777-02	.1467-02	.1778-02	1.065	6.253	538.0
270	.00000	.14000	16.000	.6310-01	.5210-01	.6320-01	.1535-02	.1267-02	.1537-02	.9200	5.874	538.0
270	.00000	.16000	18.000	.6320-01	.5220-01	.6340-01	.1537-02	.1269-02	.1543-02	.9210	5.716	538.3
270	.00000	.17000	19.000	.6210-01	.5130-01	.6240-01	.1511-02	.1248-02	.1519-02	.9050	5.777	538.5
270	.00000	.18000	20.000	.6230-01	.5150-01	.6270-01	.1517-02	.1253-02	.1526-02	.9090	5.800	538.4
270	.00000	.19000	21.000	.6110-01	.5050-01	.6150-01	.1465-02	.1228-02	.1497-02	.8930	5.706	536.7
270	.00000	.20000	22.000	.5790-01	.4780-01	.5640-01	.1409-02	.1163-02	.1421-02	.8440	5.388	538.3

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) OREITER FUSELAGE

(RV1B19)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
270	.00000	.22500	23.000	.5520-01	.4560-01	.5580-01	.1343-02	.1109-02	.1358-02	.8050	5.146	537.5
270	.00000	.25000	801.00	.5230-01	.4320-01	.5300-01	.1273-02	.1051-02	.1289-02	.7640	4.879	537.3
270	.00000	.30000	802.00	.4650-01	.4000-01	.4910-01	.1179-02	.9742-03	.1194-02	.7090	4.521	537.3
270	.00000	.35000	803.00	.4500-01	.3710-01	.4560-01	.1095-02	.9040-03	.1109-02	.6560	4.185	538.6
270	.00000	.40000	804.00	.4420-01	.3650-01	.4480-01	.1077-02	.8893-03	.1090-02	.6460	4.245	537.8
270	.00000	.45000	805.00	.4310-01	.3560-01	.4370-01	.1049-02	.8664-03	.1062-02	.6290	4.259	538.0
270	.00000	.50000	806.00	.3830-01	.3170-01	.3880-01	.9330-03	.7705-03	.9448-03	.5590	3.903	538.4
270	.00000	.55000	807.00	.3630-01	.3000-01	.3690-01	.8838-03	.7297-03	.8950-03	.5290	3.940	538.8
270	.00000	.60000	808.00	.3060-01	.2540-01	.3120-01	.7498-03	.6192-03	.7593-03	.4490	3.345	538.5
270	.00000	.65000	809.00	.3140-01	.2590-01	.3180-01	.7640-03	.6308-03	.7737-03	.4570	3.405	538.9
270	.00000	.70000	810.00	.2930-01	.2390-01	.2940-01	.7054-03	.5824-03	.7144-03	.4220	3.252	538.9
270	.00000	.75000	811.00	.2930-01	.2420-01	.2970-01	.7132-03	.5569-03	.7222-03	.4270	3.179	538.9
270	.00000	.80000	812.00	.3100-01	.2560-01	.3140-01	.7551-03	.6235-03	.7647-03	.4260	3.366	538.8
270	.00000	.85000	813.00	.2700-01	.2230-01	.2760-01	.6564-03	.5421-03	.6714-03	.3930	3.030	538.4
270	.00000	.90000	814.00	.2610-01	.2160-01	.2680-01	.6357-03	.5252-03	.6514-03	.3820	2.753	537.1
270	.00000	.92500	815.00	.2120-01	.1750-01	.2180-01	.5161-03	.4265-03	.5301-03	.3100	2.570	536.4
270	.00000	.95000	816.00	.1870-01	.1540-01	.1920-01	.4541-03	.3752-03	.4674-03	.2730	2.262	536.3
270	.00000	.97500	817.00	.1540-01	.1270-01	.1590-01	.3751-03	.3099-03	.3870-03	.2250	1.866	536.8
270	.00000	1.0150	818.00	.7600-02	.6400-02	.8100-02	.1898-03	.1569-03	.1953-03	.1140	.8530	534.9
270	.00000	1.0300	819.00	.9300-02	.7700-02	.9700-02	.2272-03	.1878-03	.2350-03	.1370	1.023	534.2
270	.00000	1.0600	821.00	.5400-02	.4500-02	.5600-02	.1323-03	.1093-03	.1368-03	.8000-01	.6730	535.2
270	.00000	1.0800	89.000	.1930-01	.1670-01	.1930-01	.4695-03	.3882-03	.4695-03	.2830	1.715	534.0
270	.00000	1.0900	90.000	.3060-01	.2530-01	.3060-01	.7436-03	.6148-03	.7436-03	.4490	2.790	534.2
270	.00000	1.0900	90.000	.8600-02	.7100-02	.8600-02	.2082-03	.1722-03	.2082-03	.1260	.7630	532.3
270	.00000	1.0900	823.00	.4960-01	.4090-01	.5020-01	.1207-02	.9959-03	.1222-02	.7200	5.738	530.9
270	.00000	1.0900	824.00	.4560-01	.3750-01	.4620-01	.1110-02	.9158-03	.1124-02	.6620	5.272	541.4
270	.00000	1.0900	825.00	.3100-01	.2550-01	.3140-01	.7534-03	.6217-03	.7630-03	.4500	4.013	540.8
270	.00000	1.0900	826.00	.3950-01	.3270-01	.4010-01	.9643-03	.7960-03	.9765-03	.5760	4.289	539.8
270	.00000	1.0900	827.00	.3390-01	.2800-01	.3440-01	.8254-03	.6814-03	.835-03	.4930	3.672	539.8
270	.00000	1.0900	828.00	.2520-01	.2080-01	.2590-01	.6141-03	.5072-03	.6294-03	.3680	2.939	538.0
270	.00000	1.0900	971.00	.2610-01	.2150-01	.2610-01	.6343-03	.5237-03	.6343-03	.3800	2.827	539.0
270	.00000	1.0900	975.00	.4370-01	.3600-01	.4370-01	.1062-02	.8767-03	.1062-02	.6340	4.718	540.6
270	.00000	1.0900	980.00	.3520-01	.2900-01	.3520-01	.8554-03	.7068-03	.8554-03	.5140	3.832	536.5
270	.00000	1.0900	93.000	.3420-01	.2820-01	.3420-01	.8311-03	.6871-03	.8311-03	.3800	3.115	534.8
270	.00000	1.0900	970.00	.1530-01	.1270-01	.1530-01	.3733-03	.3085-03	.3733-03	.2250	1.676	535.5
270	.00000	1.0900	974.00	.2220-01	.1840-01	.2220-01	.5405-03	.4467-03	.5405-03	.3250	2.426	535.6
270	.00000	1.0900	979.00	.1900-02	.1600-02	.1900-02	.4700-04	.3888-04	.4700-04	.2800-01	.2120	532.4
270	.00000	1.0900	83100+10	.7110-01	.5870-01	.7200-01	.1730-02	.1427-02	.1752-02	1.031	7.188	541.5
270	.00000	1.0900	832.00	.5800-01	.4790-01	.5880-01	.1413-02	.1165-02	.1431-02	.8400	6.045	542.5
270	.00000	1.0900	833.00	.4970-01	.4100-01	.5030-01	.1209-02	.9376-03	.1225-02	.7200	4.866	542.1
270	.00000	1.0900	834.00	.4570-01	.3770-01	.4630-01	.1112-02	.9174-03	.1126-02	.6640	5.107	540.5
270	.00000	1.0900	835.00	.3490-01	.2880-01	.3530-01	.8466-03	.7005-03	.8594-03	.5070	3.651	540.1
270	.00000	1.0900	836.00	.2720-01	.2250-01	.2790-01	.6616-03	.5464-03	.6781-03	.3960	2.951	538.5

(RV1819)

AEDC VKF V413-57A (OH-498) COLLATION DECK

OH-498 (AEDC V418-57A) ORBITER FUSELAGE

DATE 25 AUG 78

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9T0) BTU/ R FT2SEC	H(TC) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
270	32.000	.95000	837.00	.2670-01	.2210-01	.2750-01	.6503-03	.5370-03	.6695-03	.3900	3.003	538.1
270	32.000	.97500	838.00	.2970-01	.2460-01	.3070-01	.7234-03	.5976-03	.7464-03	.4340	3.466	537.4
270	32.000	1.0150	839.00	.1370-01	.1130-01	.1370-01	.3332-03	.2753-03	.3325-03	.2000	1.631	535.9
270	32.000	1.0300	840.00	.1500-01	.1240-01	.1430-01	.3641-03	.3009-03	.3634-03	.2190	1.719	535.9
270	32.000	1.0450	841.00	.1730-01	.1430-01	.1730-01	.4206-03	.3476-03	.4198-03	.2530	1.952	535.9
270	32.000	1.0600	842.00	.1260-01	.1040-01	.1260-01	.3064-03	.2533-03	.3058-03	.1840	1.528	535.8
270	45.000	.92500	959.00	.6000-03	.5000-03	.6000-03	.1554-04	.1286-04	.1554-04	.9000-02	.7000-01	530.7
270	45.000	.95000	973.00	.1600-02	.1300-02	.1600-02	.3949-04	.3268-04	.3949-04	.2400-01	.1790	530.7
270	45.000	.97500	978.00	.3800-02	.3100-02	.3800-02	.9138-04	.7562-04	.9138-04	.5500-01	.4140	531.1
270	75.000	.97500	977.00	.3400-02	.2800-02	.3400-02	.8313-04	.6879-04	.8313-04	.5000-01	.3770	531.1
270	85.000	.97500	976.00	.5200-02	.4300-02	.5200-02	.1268-03	.1043-03	.1268-03	.7700-01	.5740	531.5
270	180.00	.10000-01	59.000	.2802	.2303	.2802	.6819-02	.5604-02	.6819-02	.3.975	29.36	554.6
270	180.00	.25000-01	60.000	.9160-01	.7560-01	.9160-01	.2229-02	.1839-02	.2229-02	1.331	9.584	540.3
270	180.00	.50000-01	61.000	.4480-01	.3710-01	.4480-01	.1092-02	.9021-03	.1092-02	.6570	4.201	535.5
270	180.00	.75000-01	62.000	.2300-01	.1900-01	.2300-01	.5588-03	.4621-03	.5588-03	.3370	2.159	533.6
270	180.00	.10000+00	63.000	.1470-01	.1210-01	.1470-01	.3573-03	.2955-03	.3573-03	.2160	1.423	533.1
270	180.00	.12500	64.000	.1070-01	.8800-02	.1070-01	.2595-03	.2146-03	.2595-03	.1570	1.100	532.4
270	180.00	.15000	65.000	.6600-02	.5500-02	.6600-02	.1610-03	.1332-03	.1610-03	.9800-01	.6830	531.9
270	180.00	.16000	66.000	.1580-01	.1310-01	.1580-01	.3857-03	.3190-03	.3857-03	.2330	1.306	532.9
270	180.00	.17200	67.000	.6510-01	.5460-01	.6510-01	.1608-02	.1328-02	.1608-02	.9640	5.385	532.1
270	180.00	.20000	69.000	.1930-01	.1600-01	.1930-01	.4705-03	.3891-03	.4705-03	.2840	1.769	533.4
270	180.00	.40100	72.000	.6000-02	.5000-02	.6000-02	.1472-03	.1217-03	.1472-03	.8900-01	.7600	533.3
270	180.00	.50000	73.000	.9100-02	.7500-02	.9100-02	.2208-03	.1826-03	.2208-03	.1330	1.139	533.6
270	180.00	.60100	74.000	.1020-01	.8400-02	.1020-01	.2481-03	.2052-03	.2481-03	.1500	1.238	533.6
270	180.00	.70100	75.000	.7300-02	.6600-02	.7300-02	.1930-03	.1596-03	.1930-03	.1170	.9340	533.0

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 25 AUG 75 AEDC VKF V41B-57A (04-498) COLLATION DECK

04-498 (AEDC V41B-57A) ORBITER FUSELAGE

FUSELAGE

PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAH DEG.	PHI MODEL DEG.	PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
288	7.940	2.031	19.96	.0000	180.0	428.7	.4600-01	1288.	94.60	2.035	3785.	.4088-04
289	7.940	2.036	19.98	.0000	180.0	429.0	.4600-01	1286.	94.50	2.036	3783.	.4096-04

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(9TO) BTU/R FT2SEC	H(7O) BTU/R FT2SEC	H(1AM) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DT/DT DEG./SEC	TH DEG. R
288	.00000	.00000	1.0000	.9018	.7294	.7468	.3154-01	.2551-01	.2612-01	17.18	92.39	614.5
288	.00000	.50000-02	2.0000	.7352	.5950	.6093	.2572-01	.2081-01	.2131-01	14.05	94.57	612.5
288	.00000	.10000-01	3.0000	.5436	.4434	.4735	.1301-01	.1551-01	.1656-01	10.84	71.52	589.2
288	.00000	.20000-01	4.0000	.3211	.2646	.2956	.1123-01	.1255-02	.103-01	6.770	37.48	556.3
288	.00000	.30000-01	5.0000	.2267	.1873	.2137	.7931-02	.6550-02	.7474-02	4.847	26.94	547.9
288	.00000	.40000-01	6.0000	.1798	.1487	.1727	.6289-02	.5201-02	.6015-02	3.874	21.59	543.0
288	.00000	.50000-01	7.0000	.1630	.1346	.1575	.5701-02	.4707-02	.5508-02	3.478	23.42	549.1
288	.00000	.60000-01	8.0000	.1597	.1320	.1553	.5587-02	.4618-02	.5439-02	3.428	21.81	545.5
288	.00000	.70000-01	9.0000	.1420	.1090	.1294	.4315-02	.3814-02	.4526-02	2.254	19.67	543.3
288	.00000	.80000-01	10.000	.1047	.8650-01	.1032	.3660-02	.2756-02	.3297-02	2.061	13.15	539.9
288	.00000	.90000-01	11.000	.9520-01	.7890-01	.9433-01	.3329-02	.2531-02	.3038-02	1.896	11.45	538.8
288	.00000	.10000+00	12.000	.8740-01	.7240-01	.8690-01	.3056-02	.2532-02	.2570-02	1.604	8.974	535.4
288	.00000	.12000	14.000	.7350-01	.6100-01	.7353-01	.2572-02	.2132-02	.2427-02	1.512	8.904	535.6
288	.00000	.13000	15.000	.6940-01	.5750-01	.6943-01	.2426-02	.2011-02	.2427-02	1.368	8.904	535.9
288	.00000	.14000	16.000	.6270-01	.5200-01	.6293-01	.2194-02	.1819-02	.2178-02	1.350	8.389	536.5
288	.00000	.16000	18.000	.6200-01	.5140-01	.6233-01	.2169-02	.1797-02	.2178-02	1.365	8.723	536.8
288	.00000	.17000	19.000	.6270-01	.5200-01	.6313-01	.219-02	.1818-02	.2206-02	1.422	9.079	537.2
288	.00000	.18000	20.000	.6540-01	.5410-01	.6573-01	.2286-02	.1894-02	.2300-02	1.422	8.456	534.7
288	.00000	.19000	21.000	.6050-01	.5020-01	.6103-01	.2118-02	.1756-02	.2133-02	1.322		

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ H FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
288	.00000	.20000	22.000	.5720-01	.4740-01	.5770-01	.2002-02	.1655-02	.2019-02	1.246	7.960	536.7
288	.00000	.22500	23.000	.5170-01	.4280-01	.5220-01	.1807-02	.1497-02	.1826-02	1.125	7.185	536.6
288	.00000	.25000	801.00	.5110-01	.4230-01	.5170-01	.1787-02	.1480-02	.1809-02	1.112	7.105	536.6
288	.00000	.30000	802.00	.4610-01	.3620-01	.4670-01	.1612-02	.1335-02	.1632-02	1.003	6.404	537.0
288	.00000	.35000	803.00	.4660-01	.3850-01	.4720-01	.1629-02	.1349-02	.1649-02	1.010	6.441	539.3
288	.00000	.40000	804.00	.4440-01	.3580-01	.4500-01	.1554-02	.1286-02	.1573-02	.9630	6.323	539.5
288	.00000	.45000	805.00	.4130-01	.3420-01	.4180-01	.1445-02	.1196-02	.1463-02	.8940	6.045	540.4
288	.00000	.50000	806.00	.3630-01	.3000-01	.3680-01	.1270-02	.1051-02	.1286-02	.7850	5.471	541.1
288	.00000	.55000	807.00	.3350-01	.2770-01	.3390-01	.1171-02	.9689-03	.1186-02	.7220	5.368	542.4
288	.00000	.60000	808.00	.2950-01	.2450-01	.3000-01	.1036-02	.8668-03	.1049-02	.6390	4.748	542.3
288	.00000	.65000	809.00	.2760-01	.2290-01	.2800-01	.9570-03	.7998-03	.9732-03	.5960	4.427	543.0
288	.00000	.70000	810.00	.2620-01	.2160-01	.2650-01	.9153-03	.7569-03	.9264-03	.5950	4.422	543.2
288	.00000	.75000	811.00	.2760-01	.2290-01	.2800-01	.9665-03	.7993-03	.9787-03	.5950	4.422	543.3
288	.00000	.80000	812.00	.2930-01	.2430-01	.2970-01	.1026-02	.8483-03	.1039-02	.6320	4.692	542.4
288	.00000	.85000	813.00	.2670-01	.2210-01	.2740-01	.9354-03	.7733-03	.9566-03	.5770	4.435	540.4
288	.00000	.90000	814.00	.2550-01	.2110-01	.2620-01	.8328-03	.7350-03	.9148-03	.5520	3.976	538.9
288	.00000	.95000	815.00	.1970-01	.1630-01	.2020-01	.6893-03	.5708-03	.7078-03	.4270	3.536	538.3
288	.00000	.97500	816.00	.1830-01	.1510-01	.1880-01	.6392-03	.5294-03	.6579-03	.3970	3.284	538.1
288	.00000	1.0150	817.00	.1650-01	.1370-01	.1700-01	.5774-03	.4732-03	.5955-03	.3590	2.967	533.6
288	.00000	1.0300	818.00	.7900-02	.6500-02	.8200-02	.2771-03	.2298-03	.2884-03	.1730	1.294	533.9
288	.00000	1.0300	819.00	.9500-02	.7800-02	.9800-02	.3310-03	.2455-03	.3422-03	.2070	1.548	532.9
288	.00000	1.0600	821.00	.6500-02	.5400-02	.6700-02	.2273-03	.1895-03	.2349-03	.1420	1.203	529.0
288	.00000	1.1500	89.000	.1880-01	.1560-01	.1880-01	.6587-03	.5469-03	.6587-03	.4150	2.518	520.8
288	.00000	1.1500	90.000	.3080-01	.2550-01	.3080-01	.1078-02	.8948-03	.1078-02	.6770	1.100	527.4
288	.00000	1.1500	91.000	.8200-02	.6800-02	.8200-02	.2859-03	.2383-03	.2859-03	.1810	1.100	527.4
288	.00000	1.1500	92.000	.4870-01	.4030-01	.4930-01	.1703-02	.1409-02	.1725-02	1.050	8.360	542.5
288	.00000	1.1500	93.000	.4450-01	.3710-01	.4550-01	.1571-02	.1298-02	.1591-02	.9640	7.661	545.7
288	.00000	1.1500	94.000	.2950-01	.2440-01	.2990-01	.1033-02	.8543-03	.1047-02	.6350	5.653	545.1
288	.00000	1.1500	95.000	.3530-01	.2920-01	.3580-01	.1236-02	.1022-02	.1252-02	.7590	5.633	545.1
288	.00000	1.1500	96.000	.2640-01	.2190-01	.2710-01	.9235-03	.7642-03	.9462-03	.5710	5.339	544.3
288	.00000	1.1500	97.000	.4810-01	.3980-01	.4810-01	.1684-02	.1332-02	.1684-02	.5710	4.550	540.8
288	.00000	1.1500	97.000	.6510-01	.5380-01	.6510-01	.2778-02	.1892-02	.2278-02	1.033	7.665	545.5
288	.00000	1.1500	97.000	.4140-01	.3430-01	.4140-01	.1447-02	.1200-02	.1447-02	1.033	10.34	546.8
288	.00000	1.1500	97.000	.3320-01	.2750-01	.3320-01	.1160-02	.9604-03	.1160-02	1.033	7.840	538.7
288	.00000	1.1500	97.000	.3460-01	.2860-01	.3460-01	.1209-02	.1001-02	.1209-02	.9070	5.651	539.4
288	.00000	1.1500	97.000	.9600-02	.8000-02	.9600-02	.3362-03	.2791-03	.3362-03	.7190	5.350	539.3
288	.00000	1.1500	97.000	.7040-01	.5830-01	.7040-01	.2464-02	.2038-02	.2464-02	.2120	1.584	529.3
288	.00000	1.1500	97.000	.5740-01	.4750-01	.5740-01	.2009-02	.1660-02	.2034-02	1.518	10.58	543.0
288	.00000	1.1500	97.000	.5000-01	.4130-01	.5000-01	.1748-02	.1444-02	.1770-02	1.069	8.839	546.1
288	.00000	1.1500	97.000	.4980-01	.4110-01	.4980-01	.1742-02	.1439-02	.1764-02	1.067	7.205	547.3
288	.00000	1.1500	97.000	.3400-01	.2810-01	.3400-01	.1189-02	.9832-03	.1204-02	.7310	8.183	546.7
288	.00000	1.1500	97.000	.3400-01	.2810-01	.3400-01	.1189-02	.9832-03	.1204-02	.7310	5.257	543.9



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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1819)

RUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAN)	H(90) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
288	32.000	.90000	836.00	.2640-01	.2190-01	.2710-01	.9246-03	.7652-03	.9474-03	.5720	4.253	540.7
288	32.000	.95000	837.00	.2570-01	.2130-01	.2640-01	.8987-03	.7440-03	.9249-03	.5570	4.286	539.6
288	32.000	.97500	738.00	.2430-01	.2020-01	.2510-01	.8516-03	.7051-03	.8784-03	.5280	4.211	539.1
288	32.000	1.0150	39.00	.1220-01	.1010-01	.1220-01	.4282-03	.3550-03	.4274-03	.2670	2.177	534.5
288	32.000	1.0300	0.00	.1410-01	.1170-01	.1410-01	.4933-03	.4090-03	.4924-03	.3080	2.421	534.3
288	32.000	1.0450	441.00	.1310-01	.1090-01	.1310-01	.4599-03	.3812-03	.4590-03	.2870	2.216	534.8
288	32.000	1.0600	842.00	.1560-01	.1300-01	.1560-01	.5468-03	.4534-03	.5458-03	.3420	2.834	534.0
288	45.000	.92500	969.00	.4900-02	.4100-02	.4900-02	.1707-03	.1418-03	.1707-03	.1080	.8050	529.3
288	45.000	.95000	973.00	.2800-02	.2300-02	.2800-02	.9637-04	.8002-04	.9637-04	.6100-01	.4550	528.7
288	45.000	.97500	978.00	.4403-02	.3500-02	.4403-02	.1529-03	.1270-03	.1529-03	.9600-01	.7210	529.0
288	75.000	.97500	977.00	.6300-02	.5200-02	.6300-02	.2207-03	.1832-03	.2207-03	.1390	1.039	529.6
288	85.000	.97500	976.00	.5700-02	.4700-02	.5700-02	.1986-03	.1649-03	.1986-03	.1250	.9360	529.4
288	180.00	.10000-01	59.000	.2783	.2290	.2783	.9736-02	.8011-02	.9736-02	5.823	42.88	560.9
288	180.00	.25000-01	60.000	.9010-01	.7460-01	.9010-01	.3151-02	.2609-02	.3151-02	1.953	14.07	539.2
288	180.00	.50000-01	61.000	.4310-01	.3580-01	.4310-01	.1509-02	.1252-02	.1509-02	.9460	6.054	532.4
288	180.00	.75000-01	62.000	.2180-01	.1810-01	.2180-01	.7641-03	.6343-03	.7641-03	.4810	3.083	529.7
288	180.00	1.0000+00	63.000	.1450-01	.1210-01	.1450-01	.5082-03	.4220-03	.5082-03	.3200	2.116	528.6
288	180.00	.12500	64.000	.8800-02	.7300-02	.8800-02	.3095-03	.2571-03	.3095-03	.1950	1.371	528.1
288	180.00	.15000	65.000	.6700-02	.5500-02	.6700-02	.2334-03	.1939-03	.2334-03	.1470	1.035	527.7
288	180.00	.16000	66.000	.2320-01	.1930-01	.2320-01	.8122-03	.6742-03	.8122-03	.5110	2.868	529.7
288	180.00	.17000	67.000	.6410-01	.5310-01	.6410-01	.2241-02	.1857-02	.2241-02	1.395	7.756	536.7
288	180.00	.20000	69.000	.1750-01	.1450-01	.1750-01	.6109-03	.5072-03	.6109-03	.3850	2.400	529.0
288	180.00	.40100	72.000	.8700-02	.7200-02	.8700-02	.3028-03	.2513-03	.3028-03	.1910	1.631	529.8
288	180.00	.50000	73.000	.1210-01	.1000-01	.1210-01	.4228-03	.3509-03	.4228-03	.2660	2.272	530.8
288	180.00	.60100	74.000	.1230-01	.1020-01	.1230-01	.4319-03	.3584-03	.4319-03	.2710	2.245	531.0
288	180.00	.70100	75.000	.8500-02	.7100-02	.8500-02	.2980-03	.2473-03	.2980-03	.1870	1.505	529.8

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B19)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = 5.000 SPDRK = .0000  
BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
316	7.990	2.902	19.95	.0000	180.0	674.9	.7000-01	1358.	98.70	3.115	3889.	.5927-04
317	7.990	2.975	19.97	.0000	180.0	674.2	.7000-01	1335.	97.00	3.111	3855.	.5925-04

RUN NUMBER	MJ LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FP R =
316	.7942-07	.4367-01	9.0175
317	.7806-07	.4352-01	.2355-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
316	.0000	.0000	1.0000	.9125	.7379	.7555	.3985-01	.3222-01	.3299-01	22.87	121.0	648.5
316	.0000	.5000-02	2.0000	.7443	.6024	.6168	.3250-01	.2631-01	.2694-01	18.74	124.1	645.7
316	.0000	.1000-01	3.0000	.5549	.4335	.4840	.2424-01	.1980-01	.2114-01	14.72	95.89	615.2
316	.0000	.2000-01	4.0000	.3273	.2712	.3024	.1432-01	.1185-01	.1321-01	9.317	51.18	571.7
316	.0000	.3000-01	5.0000	.2292	.1901	.2163	.1001-01	.8303-02	.9447-02	6.621	36.57	560.8
316	.0000	.4000-01	6.0000	.1917	.1593	.1835	.8374-02	.6952-02	.6019-02	5.588	30.95	555.2
316	.0000	.5000-01	7.0000	.1530	.1352	.1576	.7123-02	.5934-02	.6885-02	4.694	31.39	563.1
316	.0000	.6000-01	8.0000	.1615	.1341	.1573	.7053-02	.5955-02	.6871-02	4.683	29.59	558.5
316	.0000	.7000-01	9.0000	.1335	.1103	.1310	.5832-02	.4840-02	.5722-02	3.665	26.70	559.5
316	.0000	.8000-01	10.000	.1047	.8700-01	.1033	.4572-02	.3800-02	.4511-02	3.055	21.16	554.2
316	.0000	.9000-01	11.000	.9700-01	.8070-01	.9610-01	.4235-02	.3524-02	.4195-02	2.842	19.07	550.0
316	.0000	.1000-00	12.000	.8860-01	.7370-01	.8810-01	.3871-02	.3220-02	.3819-02	2.601	15.61	550.4
316	.0000	.12000	14.000	.7600-01	.6330-01	.7530-01	.3320-02	.2765-02	.3317-02	2.245	12.49	546.0
316	.0000	.13000	15.000	.6960-01	.5900-01	.6950-01	.3040-02	.2531-02	.3042-02	2.054	12.03	546.6
316	.0000	.14000	16.000	.6290-01	.5240-01	.6330-01	.2748-02	.2286-02	.2753-02	1.856	11.79	547.2
316	.0000	.15000	18.000	.5430-01	.5350-01	.6430-01	.2806-02	.2336-02	.2817-02	1.892	11.68	548.2
316	.0000	.17500	19.000	.6320-01	.5660-01	.6330-01	.2758-02	.2295-02	.2772-02	1.857	11.79	549.0
316	.0000	.18000	20.000	.6170-01	.5130-01	.6210-01	.2695-02	.2242-02	.2710-02	1.814	11.52	549.2
316	.0000	.19000	21.000	.6660-01	.5040-01	.6100-01	.2644-02	.2202-02	.2663-02	1.787	11.36	546.8

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(9TO) BTU/R FT2SEC	H(10) BTU/R FT2SEC	H(TAM) BTU/R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG/R /SEC	TW DEG/R
316	.00000	.20000	22.000	.5800-01	.4830-01	.5850-01	.2533-02	.2103-02	.2554-02	1.705	10.83	549.1
316	.00000	.22500	23.000	.5370-01	.4470-01	.5420-01	.2344-02	.1951-02	.2369-02	1.580	10.04	548.3
316	.00000	.25000	801.00	.5010-01	.4170-01	.5070-01	.2189-02	.1822-02	.2216-02	1.475	9.368	548.5
316	.00000	.30000	802.00	.4610-01	.3940-01	.4670-01	.2015-02	.1676-02	.2039-02	1.355	8.604	549.6
316	.00000	.35000	803.00	.4650-01	.3870-01	.4710-01	.2033-02	.1690-02	.2058-02	1.361	8.621	553.0
316	.00000	.40000	804.00	.4520-01	.3750-01	.4530-01	.1975-02	.1641-02	.1999-02	1.318	8.550	555.0
316	.00000	.45000	805.00	.4080-01	.3390-01	.4130-01	.1783-02	.1481-02	.1850-02	1.185	7.941	558.2
316	.00000	.50000	806.00	.3670-01	.3050-01	.3720-01	.1603-02	.1330-02	.1623-02	1.062	7.335	560.0
316	.00000	.55000	807.00	.3390-01	.2810-01	.3430-01	.1481-02	.1228-02	.1499-02	.9760	7.180	563.1
316	.00000	.60000	808.00	.3010-01	.2500-01	.3050-01	.1315-02	.1090-02	.1332-02	.8660	6.368	563.9
316	.00000	.65000	809.00	.2580-01	.2130-01	.2610-01	.1125-02	.9319-03	.1139-02	.7380	5.421	566.1
316	.00000	.70000	810.00	.2540-01	.2100-01	.2570-01	.1109-02	.9190-03	.1123-02	.7270	5.520	567.1
316	.00000	.75000	811.00	.2670-01	.2210-01	.2730-01	.1165-02	.9648-03	.1130-02	.7630	5.597	567.7
316	.00000	.80000	812.00	.3130-01	.2590-01	.3170-01	.1365-02	.1131-02	.1382-02	.8940	6.564	567.3
316	.00000	.85000	813.00	.3120-01	.2580-01	.3190-01	.1362-02	.1128-02	.1392-02	.8930	6.784	566.5
316	.00000	.90000	814.00	.3040-01	.2520-01	.3110-01	.1326-02	.1100-02	.1358-02	.8760	6.239	561.9
316	.00000	.92500	815.00	.2940-01	.2060-01	.2530-01	.1086-02	.9011-03	.1114-02	.7200	5.896	559.2
316	.00000	.95000	816.00	.2920-01	.2010-01	.2430-01	.1055-02	.8764-03	.1086-02	.7020	5.750	557.6
316	.00000	.97500	817.00	.2340-01	.1940-01	.2410-01	.1020-02	.8474-03	.1052-02	.6790	5.562	557.4
316	.00000	1.0150	818.00	.1510-01	.1260-01	.1530-01	.6596-03	.5492-03	.6813-03	4.460	3.305	546.7
316	.00000	1.0300	819.00	.1510-01	.1340-01	.1630-01	.7014-03	.5843-03	.7245-03	4.750	3.527	545.0
316	.00000	1.0500	821.00	.1500-01	.1250-01	.1550-01	.6541-03	.5449-03	.6756-03	4.440	3.729	544.2
316	.00000	1.0800	823.00	.1780-01	.1480-01	.1730-01	.7760-03	.6478-03	.7760-03	5.320	3.217	536.5
316	.00000	1.1000	824.00	.3600-01	.3000-01	.3630-01	.1573-02	.1312-02	.1573-02	1.072	6.646	540.8
316	.00000	1.1500	91.000	.1240-01	.1040-01	.1240-01	.5417-03	.4523-03	.5417-03	3.720	2.251	535.4
316	.00000	1.2000	823.00	.4890-01	.4060-01	.4950-01	.2136-02	.1773-02	.2163-02	1.416	11.18	559.6
316	.00000	1.2500	824.00	.4540-01	.3760-01	.4530-01	.1981-02	.1642-02	.2006-02	1.303	10.26	564.7
316	.00000	1.3000	825.00	.3010-01	.2430-01	.3050-01	.1314-02	.1099-02	.1331-02	.8610	7.586	567.2
316	.00000	1.3500	826.00	.3660-01	.3030-01	.3710-01	.1601-02	.1325-02	.1621-02	1.044	7.556	569.9
316	.00000	1.4000	827.00	.3540-01	.2930-01	.3530-01	.1546-02	.1281-02	.1566-02	1.012	7.426	567.9
316	.00000	1.4500	828.00	.2810-01	.2330-01	.2830-01	.1227-02	.1018-02	.1257-02	1.000	6.389	562.0
316	.00000	1.5000	971.00	.6390-01	.5330-01	.6330-01	.2792-02	.2313-02	.2792-02	1.630	13.44	566.8
316	.00000	1.5500	975.00	.8750-01	.7240-01	.8750-01	.3821-02	.3164-02	.3821-02	2.497	18.32	568.9
316	.00000	1.6000	980.00	.6160-01	.5120-01	.6150-01	.2688-02	.2234-02	.2688-02	1.795	13.25	554.7
316	.00000	1.6500	93.000	.5010-01	.4170-01	.5010-01	.2186-02	.1823-02	.2186-02	1.488	9.218	541.8
316	.00000	1.7000	970.00	.4700-01	.3900-01	.4700-01	.2054-02	.1705-02	.2054-02	1.353	10.05	558.5
316	.00000	1.7500	974.00	.5170-01	.4290-01	.5170-01	.2257-02	.1873-02	.2257-02	1.497	11.03	559.2
316	.00000	1.8000	979.00	.2990-01	.2490-01	.2990-01	.1304-02	.1088-02	.1304-02	.8910	6.628	539.5
316	.00000	1.8500	83100+10	.7150-01	.5940-01	.7240-01	.3124-02	.2593-02	.3163-02	2.071	14.30	559.6
316	.00000	1.9000	832.00	.5800-01	.4810-01	.5830-01	.2535-02	.2100-02	.2567-02	1.664	11.83	566.0
316	.00000	1.9500	833.00	.5090-01	.4220-01	.5150-01	.2224-02	.1841-02	.2252-02	1.454	9.692	568.9
316	.00000	1.9750	834.00	.3480-01	.2880-01	.3520-01	.1518-02	.1257-02	.1537-02	.9900	7.509	570.1
316	.00000	1.9900	835.00	.3410-01	.2820-01	.3450-01	.1488-02	.1233-02	.1507-02	.9770	6.940	566.2

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(RV1B19)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(OTO) BTU/ R FT2SEC	H(TAO) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	OTWDT DEG. R /SEC	TW DEG. R
316	32.000	.90000	836.00	.2710-01	.2250-01	.278(-01	.1185-02	.9836-03	.7850	5.785	559.9
316	32.000	.95000	837.00	.2750-01	.2290-01	.283(-01	.1203-02	.9889-03	.8000	6.107	557.1
316	32.000	.97500	838.00	.2570-01	.2140-01	.265(-01	.1123-02	.9379-03	.7520	5.953	553.2
316	32.000	1.0150	839.00	.1380-01	.1150-01	.138(-01	.6036-03	.5026-03	.4080	3.300	546.7
316	32.000	1.0300	840.00	.1520-01	.1270-01	.152(-01	.6643-03	.5533-03	.4500	3.515	545.1
316	32.000	1.0450	841.00	.1650-01	.1380-01	.165(-01	.7224-03	.6017-03	.4890	3.755	545.3
316	32.000	1.0600	842.00	.1540-01	.1280-01	.153(-01	.6710-03	.5590-03	.4550	3.752	544.6
316	45.000	.92500	969.00	.7400-02	.6200-02	.740(-02	.3252-03	.2710-03	.2210	1.641	543.2
316	45.000	.95000	973.00	.3200-02	.2700-02	.320(-02	.1416-03	.1180-03	.1340	.9550	543.0
316	45.000	.97500	978.00	.4500-02	.3800-02	.450(-02	.1971-03	.1642-03	.1800	1.334	543.6
316	75.000	.97500	977.00	.6100-02	.5000-02	.610(-02	.2646-03	.2205-03	.2100	1.561	543.0
316	85.000	.97500	976.00	.7100-02	.5900-02	.710(-02	.3091-03	.2576-03	.2100	1.561	543.0
316	180.00	1.0000-01	59.000	.2790	.2305	.2790	.1219-01	.1007-01	7.857	57.37	577.6
316	180.00	.25000-01	60.000	.9120-01	.7600-01	.9120-01	.3985-02	.3318-02	2.691	19.31	547.0
316	180.00	.50000-01	61.000	.4250-01	.3540-01	.4250-01	.1856-02	.1548-02	1.267	8.086	539.5
316	180.00	.75000-01	62.000	.2070-01	.1730-01	.2070-01	.5044-03	.4548-03	.6200	3.960	537.0
316	180.00	1.0000+00	63.000	.1280-01	.1070-01	.1280-01	.5577-03	.4656-03	.3830	2.517	536.1
316	180.00	.12500	64.000	.8300-02	.6900-02	.8300-02	.3633-03	.3033-03	.2450	1.743	535.9
316	180.00	.15000	65.000	.6800-02	.5700-02	.6800-02	.2977-03	.2485-03	.2040	1.429	535.9
316	180.00	.16000	66.000	.2620-01	.2180-01	.2620-01	.1143-02	.9530-03	.7790	4.349	540.5
316	180.00	.17000	67.000	.6570-01	.5470-01	.6570-01	.2870-02	.2389-02	1.939	10.78	546.8
316	180.00	.20000	69.000	.1590-01	.1330-01	.1590-01	.6951-03	.5800-03	.4760	2.952	538.2
316	180.00	.40100	72.000	.1250-01	.1040-01	.1250-01	.4546-03	.3450-03	.3720	3.168	539.4
316	180.00	.50000	73.000	.1530-01	.1280-01	.1530-01	.6704-03	.5589-03	.4570	3.881	541.3
316	180.00	.60100	74.000	.1440-01	.1200-01	.1440-01	.6301-03	.5253-03	.4290	3.529	541.4
316	180.00	.70100	75.000	.8700-02	.7200-02	.8700-02	.3789-03	.3160-03	.2590	2.063	539.7

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## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
310	8.000	3.745	19.97	.0000	180.0	859.9	.8800-01	1344.	97.40	3.946	3868.	.7589-04
311	8.000	3.752	19.92	.0000	180.0	860.9	.8800-01	1343.	97.30	3.950	3867.	.7602-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
310	.7839-07	.4907-01		0.0175
311	.7835-07	.4909-01		.2098-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(1TO) BTU/ R FT <sup>2</sup> SEC	H(1TAW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TW DEG. R
310	.00000	.00000	1.0000	.9088	.7303	.7483	.4459-01	.3584-01	.3671-01	24.52	129.0	659.5
310	.00000	.50000-02	2.0000	.7504	.6036	.6184	.5682-01	.2862-01	.3034-01	20.34	134.0	656.9
310	.00000	.10000-01	3.0000	.5773	.4694	.5018	.2832-01	.2303-01	.2462-01	16.57	107.5	624.3
310	.00000	.20000-01	4.0000	.3328	.2744	.3065	.1633-01	.1347-01	.1504-01	10.32	56.49	577.7
310	.00000	.30000-01	5.0000	.2255	.1866	.2127	.1107-01	.9154-02	.1043-01	7.118	39.21	566.1
310	.00000	.40000-01	6.0000	.1816	.1505	.1738	.8912-02	.7384-02	.8527-02	5.789	31.99	559.7
310	.00000	.50000-01	7.0000	.1653	.1366	.1597	.8110-02	.6704-02	.7836-02	5.196	34.65	558.5
310	.00000	.60000-01	8.0000	.1632	.1351	.1589	.8008-02	.6829-02	.7798-02	5.169	32.58	563.8
310	.00000	.70000-01	9.0000	.1368	.1132	.1342	.6713-02	.5554-02	.6584-02	4.324	29.79	565.1
310	.00000	.80000-01	10.000	.1075	.8900-01	.1060	.5272-02	.4369-02	.5201-02	3.428	23.68	559.1
310	.00000	.90000-01	11.000	.9520-01	.7900-01	.9430-01	.4672-02	.3876-02	.4626-02	3.058	19.36	554.9
310	.00000	.10000+00	12.000	.8510-01	.7140-01	.8550-01	.4222-02	.3504-02	.4197-02	2.768	16.59	553.8
310	.00000	.12000	14.000	.7570-01	.6290-01	.7560-01	.3714-02	.3085-02	.3710-02	2.445	13.57	550.9
310	.00000	.13000	15.000	.7100-01	.5900-01	.7100-01	.3484-02	.2893-02	.3466-02	2.292	13.38	551.6
310	.00000	.14000	16.000	.6280-01	.5220-01	.6290-01	.3082-02	.2559-02	.3087-02	2.026	12.84	552.1
310	.00000	.16000	18.000	.6410-01	.5320-01	.6440-01	.3147-02	.2612-02	.3159-02	2.065	12.72	553.2
310	.00000	.17000	19.000	.6230-01	.5170-01	.6260-01	.3056-02	.2536-02	.3071-02	2.002	12.68	554.1
310	.00000	.18000	20.000	.6140-01	.5090-01	.6170-01	.3010-02	.2498-02	.3028-02	1.971	12.48	554.6
310	.00000	.19000	21.000	.6430-01	.5340-01	.6480-01	.3157-02	.2622-02	.3180-02	2.077	13.17	551.6

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(910) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
310	.00000	.20000	22.000	.5810-01	.4820-01	.5850-01	.2849-02	.2564-02	.2873-02	1.866	11.82	554.3
310	.00000	.22500	23.000	.5260-01	.4370-01	.5320-01	.2583-02	.2144-02	.2611-02	1.694	10.73	553.5
310	.00000	.25000	801.00	.5130-01	.4250-01	.5190-01	.2515-02	.2087-02	.2546-02	1.849	10.44	553.7
310	.00000	.30000	802.00	.4570-01	.3790-01	.4620-01	.2242-02	.1860-02	.2268-02	1.467	9.291	554.7
310	.00000	.35000	803.00	.4500-01	.3890-01	.4750-01	.2300-02	.1907-02	.2329-02	1.498	9.469	558.1
310	.00000	.40000	804.00	.4500-01	.3730-01	.4560-01	.2208-02	.1830-02	.2236-02	1.434	9.324	559.8
310	.00000	.45000	805.00	.4180-01	.3460-01	.4240-01	.2053-02	.1700-02	.2079-02	1.339	8.889	562.1
310	.00000	.50000	806.00	.3590-01	.2970-01	.3630-01	.1761-02	.1457-02	.1783-02	1.135	7.821	564.7
310	.00000	.55000	807.00	.3430-01	.2840-01	.3470-01	.1683-02	.1391-02	.1704-02	1.079	7.092	568.0
310	.00000	.60000	808.00	.3080-01	.2540-01	.3120-01	.1510-02	.1248-02	.1529-02	.9570	6.267	571.2
310	.00000	.65000	809.00	.2730-01	.2260-01	.2770-01	.1341-02	.1107-02	.1358-02	.8560	6.412	574.1
310	.00000	.70000	810.00	.2710-01	.2240-01	.2750-01	.1331-02	.1099-02	.1348-02	.8470	7.408	574.1
310	.00000	.75000	811.00	.3250-01	.2680-01	.3290-01	.1594-02	.1316-02	.1614-02	1.013	9.761	573.9
310	.00000	.80000	812.00	.4910-01	.4050-01	.5020-01	.2410-02	.1989-02	.2465-02	1.531	11.59	573.8
310	.00000	.85000	813.00	.5170-01	.4280-01	.5300-01	.2539-02	.2098-02	.2601-02	1.634	11.52	559.6
310	.00000	.90000	814.00	.4350-01	.3600-01	.4470-01	.2136-02	.1766-02	.2194-02	1.372	11.20	566.8
310	.00000	.92500	815.00	.4590-01	.3800-01	.4730-01	.2254-02	.1864-02	.2320-02	1.449	11.83	566.3
310	.00000	.95000	816.00	.5190-01	.4280-01	.5340-01	.2539-02	.2100-02	.2520-02	1.630	13.29	555.3
310	.00000	.97500	817.00	.3520-01	.3000-01	.3740-01	.1774-02	.1471-02	.1834-02	1.160	8.566	553.6
310	.00000	1.0150	818.00	.3340-01	.2770-01	.3450-01	.1639-02	.1360-02	.1694-02	1.073	8.968	554.9
310	.00000	1.0300	819.00	.3820-01	.3230-01	.3880-01	.1906-02	.1585-02	.1906-02	1.266	7.831	540.1
310	.00000	1.0500	820.00	.5900-02	.4900-02	.5900-02	.2874-03	.2393-03	.2874-03	1.920	12.21	539.8
310	.00000	1.0600	821.00	.4910-01	.4060-01	.4970-01	.2408-02	.1932-02	.2438-02	1.551	11.15	565.2
310	.00000	1.0700	822.00	.4530-01	.3740-01	.4590-01	.2222-02	.1836-02	.2251-02	1.420	11.15	570.2
310	.00000	1.0800	823.00	.3040-01	.2510-01	.3080-01	.1492-02	.1232-02	.1511-02	.9510	8.359	571.8
310	.00000	1.0900	824.00	.3340-01	.2750-01	.3390-01	.1641-02	.1354-02	.1662-02	1.040	7.601	575.5
310	.00000	1.1000	825.00	.4290-01	.3540-01	.4340-01	.2102-02	.1735-02	.2129-02	1.336	9.771	574.0
310	.00000	1.1100	826.00	.3920-01	.3240-01	.4020-01	.1923-02	.1590-02	.1971-02	1.232	9.580	568.8
310	.00000	1.1200	827.00	.7550-01	.6230-01	.7550-01	.3705-02	.3057-02	.3705-02	2.350	17.18	575.1
310	.00000	1.1300	828.00	.1000+00	.8250-01	.1000+00	.4907-02	.4046-02	.4907-02	3.099	22.62	577.9
310	.00000	1.1400	829.00	.6970-01	.5770-01	.6970-01	.3418-02	.2830-02	.3418-02	2.211	16.27	562.5
310	.00000	1.1500	830.00	.5560-01	.4620-01	.5560-01	.2729-02	.2268-02	.2729-02	1.806	11.16	547.4
310	.00000	1.1600	831.00	.5400-01	.4470-01	.5400-01	.2650-02	.2193-02	.2650-02	1.706	12.54	565.4
310	.00000	1.1700	832.00	.6370-01	.5260-01	.6370-01	.3124-02	.2583-02	.3124-02	2.005	14.71	567.6
310	.00000	1.1800	833.00	.1820-01	.1510-01	.1820-01	.8939-03	.7431-03	.8939-03	.5920	4.388	547.2
310	.00000	1.1900	834.00	.7190-01	.5950-01	.7280-01	.3529-02	.2920-02	.3574-02	2.272	15.65	565.5
310	.00000	1.2000	835.00	.5550-01	.4600-01	.5630-01	.2730-02	.2255-02	.2764-02	1.741	12.34	571.5
310	.00000	1.2100	836.00	.5180-01	.4270-01	.5240-01	.2540-02	.2096-02	.2573-02	1.613	10.72	574.4
310	.00000	1.2200	837.00	.4510-01	.3720-01	.4570-01	.2215-02	.1828-02	.2243-02	1.404	10.62	575.6
310	.00000	1.2300	838.00	.3540-01	.2930-01	.3590-01	.1739-02	.1436-02	.1761-02	1.107	7.840	572.9

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

(RVIB19)

AEDC VKF V41B-57A JH-49B COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	T-ETA	X/L	T/C NO	H/HREF P=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
310	32.000	.90000	836.00	.3200-01	.2650-01	.3280-01	.1570-02	.1298-02	.1608-02	1.008	7.403	566.9
310	32.000	.95000	837.00	.3350-01	.2770-01	.3450-01	.1645-02	.1361-02	.1693-02	1.060	8.063	554.6
310	32.000	.97500	838.00	.3190-01	.2640-01	.3230-01	.1563-02	.1295-02	.1613-02	1.012	7.978	562.1
310	32.000	1.0150	839.00	.1870-01	.1550-01	.1650-01	.9157-03	.397-03	.9140-03	.5990	4.828	554.9
310	32.000	1.0300	840.00	.2150-01	.1790-01	.2150-01	.1056-02	.8763-03	.1054-02	.6930	5.398	553.4
310	32.000	1.0450	841.00	.2350-01	.1960-01	.2350-01	.1156-02	.9597-03	.1154-02	.7590	5.802	553.2
310	32.000	1.0600	842.00	.2140-01	.1780-01	.2140-01	.1050-02	.8716-03	.1048-02	.6900	5.668	552.3
310	45.000	.92500	969.00	.8600-02	.7100-02	.8600-02	.4215-03	.3504-03	.4215-03	.2790	2.070	547.0
310	45.000	.95000	973.00	.3000-02	.2500-02	.3000-02	.1463-03	.1216-03	.1463-03	.9700-01	.7180	547.1
310	75.000	.97500	977.00	.4800-02	.4000-02	.4800-02	.2343-03	.1948-03	.2343-03	.1550	1.151	546.8
310	85.000	.97500	976.00	.5000-02	.4200-02	.5000-02	.2474-03	.2057-03	.2474-03	.1640	1.214	547.3
310	100.000	.97500	976.00	.7100-02	.5300-02	.7100-02	.3491-03	.2902-03	.3491-03	.2310	1.714	547.0
310	100.000	.19000-01	59.000	.2755	.2267	.2755	.1352-01	.1112-01	.1352-01	8.448	61.48	584.3
310	180.00	.25000-01	60.000	.9060-01	.7520-01	.9060-01	.4444-02	.3691-02	.4444-02	2.925	20.95	551.1
310	180.00	.50000-01	61.000	.4160-01	.3470-01	.4160-01	.2043-02	.1700-02	.2043-02	1.361	8.669	543.1
310	180.00	.75000-01	62.000	.2560-01	.1720-01	.2560-01	.1013-02	.8435-03	.1013-02	.6780	4.322	540.3
310	180.00	.10000*00	63.000	.1160-01	.9700-02	.1160-01	.5705-03	.4751-03	.5705-03	.3820	2.509	539.7
310	180.00	.12500	64.000	.7300-02	.6100-02	.7300-02	.3585-03	.2986-03	.3585-03	.2400	1.676	539.4
310	180.00	.15000	65.000	.6200-02	.5200-02	.6200-02	.3037-03	.2529-03	.3037-03	.2030	1.420	539.4
310	180.00	.16000	66.000	.2630-01	.2190-01	.2630-01	.1292-02	.1074-02	.1292-02	.8580	4.779	544.7
310	180.00	.17000	67.000	.6510-01	.5400-01	.6510-01	.3193-02	.2651-02	.3193-02	2.100	11.65	551.6
310	180.00	.20000	69.000	.1540-01	.1280-01	.1540-01	.7557-03	.6291-03	.7557-03	.5050	3.126	541.6
310	180.00	.40100	72.000	.1460-01	.1210-01	.1460-01	.7141-03	.5940-03	.7141-03	.4750	4.029	544.3
310	180.00	.50000	73.000	.1500-01	.1240-01	.1500-01	.7343-03	.6107-03	.7343-03	.4880	4.136	545.1
310	180.00	.60100	74.000	.1400-01	.1160-01	.1400-01	.6855-03	.5701-03	.6855-03	.4550	3.730	545.9
310	180.00	.70100	75.000	.8000-02	.6700-02	.8000-02	.3939-03	.3278-03	.3939-03	.2620	2.085	544.0

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AEDC VKI V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1820)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.30 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
266	7.900	.5443	30.04	.0000	180.0	110.5	.1200-01	1266.	93.90	.5370	3752.	.1097-04
267	7.900	.5372	30.02	.0000	180.0	109.2	.1200-01	1268.	94.00	.5300	3753.	.1083-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
266	.7562-07	.1791-01	0.0175
267	.7569-07	.1781-01	.5524-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(1AH) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWDT DEG. R /SEC	TW DEG. R
266	.00000	.00000	1.0000	.7515	.6163	.6473	.1346-01	.1104-01	.1159-01	7.704	42.84	562.9
266	.00000	.50000-02	2.0000	.7465	.6113	.6147	.1337-01	.1095-01	.1101-01	7.652	52.66	567.4
266	.00000	.10000-01	3.0000	.6194	.5084	.5654	.1109-01	.9100-02	.9410-02	6.436	43.11	559.5
266	.00000	.30000-01	5.0000	.2873	.2370	.2595	.5145-02	.4245-02	.4648-02	3.074	17.14	542.2
266	.00000	.40000-01	6.0000	.2389	.1972	.2187	.4279-02	.3531-02	.3918-02	2.561	14.28	541.2
266	.00000	.50000-01	7.0000	.2274	.1876	.2103	.4073-02	.3359-02	.3766-02	2.426	16.38	544.2
266	.00000	.60000-01	8.0000	.2282	.1882	.2125	.4087-02	.3371-02	.3806-02	2.436	15.51	543.7
266	.00000	.70000-01	9.0000	.1994	.1544	.1870	.3570-02	.2944-02	.3349-02	2.126	14.80	544.3
266	.00000	.80000-01	10.000	.1579	.1303	.1489	.2827-02	.2333-02	.2668-02	1.691	11.78	541.8
266	.00000	.90000-01	11.000	.1463	.1208	.1386	.2621-02	.2164-02	.2483-02	1.572	10.03	539.9
266	.00000	.10000+00	12.000	.1332	.1100	.1267	.2385-02	.1970-02	.2269-02	1.432	8.641	539.5
266	.00000	.12000	14.000	.1250	.1033	.1195	.2239-02	.1849-02	.2140-02	1.347	7.526	538.0
266	.00000	.13000	15.000	.1177	.9720-01	.1127	.2107-02	.1741-02	.2019-02	1.267	7.452	538.3
266	.00000	.14000	16.000	.1072	.8660-01	.1028	.1920-02	.1586-02	.1842-02	1.154	7.368	538.5
266	.00000	.16000	18.000	.1069	.8630-01	.1028	.1915-02	.1587-02	.1841-02	1.154	7.142	538.8
266	.00000	.17000	19.000	.1073	.8660-01	.1033	.1922-02	.1587-02	.1850-02	1.154	7.365	539.2
266	.00000	.18000	20.000	.1029	.8500-01	.9310-01	.1842-02	.1521-02	.1775-02	1.106	7.060	539.2
266	.00000	.19000	21.000	.1053	.8700-01	.1015	.1895-02	.1556-02	.1818-02	1.137	7.261	536.8
266	.00000	.20000	22.000	.9910-01	.8190-01	.9580-01	.1776-02	.1466-02	.1715-02	1.066	6.804	539.2



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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1820)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(910) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
265	0.0000	22500	23.000	3470-01	7820-01	9170-01	1696-02	1401-02	1643-02	1.020	6.509	538.6
266	0.0000	25000	801.00	9240-01	7630-01	8960-01	1655-02	1367-02	1605-02	.9950	6.348	538.6
266	0.0000	30000	802.00	8390-01	6930-01	8140-01	1503-02	1241-02	1458-02	.9030	5.760	539.0
266	0.0000	35000	803.00	8720-01	7200-01	8460-01	1562-02	1290-02	1515-02	.9360	5.968	540.7
266	0.0000	40000	804.00	8220-01	6830-01	8030-01	1483-02	1224-02	1438-02	.8880	5.826	540.9
266	0.0000	45000	805.00	8050-01	6640-01	7810-01	1442-02	1190-02	1399-02	.8620	5.826	541.9
266	0.0000	50000	806.00	7070-01	5840-01	6860-01	1267-02	1045-02	1229-02	.7570	5.273	542.4
266	0.0000	55000	807.00	6790-01	5600-01	6590-01	1217-02	1003-02	1180-02	.7250	5.387	543.6
266	0.0000	60000	808.00	6230-01	5190-01	6100-01	1127-02	9294-03	1093-02	.6720	4.992	543.3
266	0.0000	65000	809.00	5840-01	4810-01	5560-01	1046-02	8623-03	1014-02	.6230	4.624	544.2
266	0.0000	70000	810.00	6100-01	5030-01	5910-01	1002-02	9004-03	1059-02	.6500	4.997	544.0
266	0.0000	75000	811.00	5750-01	4740-01	5580-01	1030-02	8495-03	9389-03	.6140	4.561	543.5
266	0.0000	80000	812.00	6060-01	5000-01	5880-01	1085-02	8954-03	1053-02	.6480	4.815	542.7
266	0.0000	85000	813.00	5650-01	4660-01	5540-01	1012-02	8348-03	9921-03	.6050	4.649	542.1
266	0.0000	90000	814.00	5130-01	4240-01	5050-01	9196-03	7592-03	9038-03	.5510	3.968	540.4
266	0.0000	92500	815.00	4190-01	3460-01	4130-01	7507-03	6200-03	7397-03	.4510	3.732	538.8
266	0.0000	95000	816.00	3800-01	3140-01	3750-01	6804-03	5622-03	6723-03	.4100	3.390	537.7
266	0.0000	97500	817.00	3630-01	3000-01	3600-01	6502-03	5372-03	6441-03	.3910	3.240	537.8
266	0.0000	1.0150	818.00	2020-01	1670-01	2000-01	3513-03	2991-03	3590-03	.2200	1.643	531.5
266	0.0000	1.0300	819.00	2170-01	1800-01	2160-01	3893-03	3223-03	3868-03	.2370	1.773	530.5
266	0.0000	1.0600	821.00	1850-01	1530-01	1840-01	3317-03	2746-03	3296-03	.2020	1.710	530.8
266	0.0000	15000	89.000	9000-02	7500-02	9000-02	1617-03	1339-03	1617-03	.9900-01	.5970	530.4
266	11.500	20000	91.000	1300-01	1080-01	1300-01	2333-03	1932-03	2333-03	.1420	.8850	530.8
266	17.500	40000	823.00	8230-01	6790-01	7980-01	1474-02	1216-02	1429-02	.8790	6.993	543.5
266	17.500	50000	824.00	7780-01	6420-01	7550-01	1394-02	1149-02	1352-02	.8280	6.586	545.6
266	17.500	50000	825.00	5450-01	4490-01	5280-01	9755-03	8041-03	9459-03	.5800	5.161	545.6
266	17.500	70000	826.00	5650-01	4630-01	5480-01	1012-02	8345-03	9817-03	.6020	4.466	545.3
266	17.500	80000	827.00	6030-01	4970-01	5850-01	1080-02	8909-03	1047-02	.6440	4.787	543.1
266	17.500	90000	828.00	4410-01	3640-01	4330-01	7696-03	6518-03	7760-03	.4730	3.771	540.6
266	20.000	971.00	971.00	5600-01	4630-01	5600-01	1004-02	8287-03	1004-02	.6020	4.479	540.0
266	20.000	975.00	975.00	8570-01	7070-01	8570-01	1535-02	1267-02	1535-02	.9180	6.824	541.8
266	20.000	980.00	980.00	6950-01	5750-01	6960-01	1246-02	1030-02	1246-02	.7550	5.636	533.6
266	24.000	93.000	93.000	9500-02	7900-02	9500-02	710-03	1416-03	1710-03	.1040	.6900	530.0
266	30.000	970.00	970.00	3360-01	2780-01	3360-01	6025-03	4981-03	6025-03	.3540	2.714	535.7
266	30.000	974.00	974.00	4720-01	3900-01	4720-01	8444-03	6991-03	8444-03	.5100	3.804	535.7
266	30.000	979.00	979.00	1810-01	1500-01	1810-01	3248-03	2690-03	3248-03	.1980	1.484	529.1
266	32.000	83100+10	832.00	1055	8700-01	1023	1889-02	1558-02	1832-02	1.128	7.856	542.8
266	32.000	832.00	832.00	6840-01	7290-01	8570-01	1583-02	1305-02	1535-02	.9400	6.753	545.5
266	32.000	833.00	833.00	7610-01	6270-01	7380-01	1303-02	1123-02	1322-02	.8090	5.455	546.1
266	32.000	834.00	834.00	7190-01	5930-01	6980-01	1288-02	1062-02	1249-02	.7670	5.895	544.1
266	32.000	835.00	835.00	5550-01	4580-01	5380-01	9941-03	8203-03	9642-03	.5940	4.272	542.4
266	32.000	836.00	836.00	4680-01	3860-01	4600-01	8376-03	6917-03	8232-03	.5030	3.742	539.5
266	32.000	837.00	837.00	4660-01	3850-01	4600-01	8339-03	6890-03	8239-03	.5020	3.869	537.8

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
265	32.000	.97500	839.00	.4490-01	.3710-01	.4450-01	.8040-03	.6548-03	.7554-03	.4870	3.890	534.6
266	32.000	1.0150	839.00	.2590-01	.2150-01	.2480-01	.4643-03	.3844-03	.4438-03	.2830	2.307	530.5
266	32.000	1.0300	840.00	.2830-01	.2340-01	.2700-01	.5066-03	.4194-03	.4843-03	.3090	2.430	530.3
266	32.000	1.0450	841.00	.2940-01	.2440-01	.2810-01	.5267-03	.4361-03	.5035-03	.3210	2.486	529.7
266	32.000	1.0600	842.00	.2710-01	.2240-01	.2590-01	.4847-03	.4013-03	.4633-03	.2960	2.457	529.8
266	45.000	.92500	969.00	.2800-02	.2400-02	.2800-02	.5066-04	.4212-04	.5086-04	.3100-01	.2320	529.7
266	45.000	.95000	973.00	.5000-03	.4000-03	.5000-03	.9606-05	.7953-05	.9606-05	.6000-02	.4400-01	530.5
266	45.000	.97500	978.00	.9000-03	.7000-03	.9000-03	.1613-04	.1335-04	.1613-04	.1000-01	.7400-01	529.8
266	75.000	.97500	977.00	.4000-03	.3000-03	.4000-03	.7226-05	.5984-05	.7226-05	.4000-02	.3300-01	530.0
266	85.000	.97500	976.00	.3000-03	.3000-03	.3000-03	.6052-05	.5012-05	.6052-05	.4000-02	.2800-01	530.0
266	180.00	1.0000-01	59.000	.1848	.1525	.1848	.3309-02	.2731-02	.3309-02	1.980	14.72	541.5
266	180.00	.25000-01	60.000	.5350-01	.4430-01	.5350-01	.7586-03	.7928-03	.9586-03	.5800	4.192	534.2
266	180.00	.50000-01	61.000	.2540-01	.2100-01	.2540-01	.4548-03	.3764-03	.4548-03	.2760	1.769	532.4
266	180.00	.75000-01	62.000	.1380-01	.1140-01	.1380-01	.2469-03	.2044-03	.2469-03	.1500	.9620	531.6
266	180.00	1.0000+00	63.000	.9700-02	.8000-02	.9700-02	.1729-03	.1431-03	.1729-03	.1050	.6940	531.1
266	180.00	.12500	64.000	.8700-02	.7200-02	.8700-02	.1558-03	.1290-03	.1558-03	.9500-01	.6650	531.0
266	180.00	.15000	65.000	.8900-02	.7300-02	.8900-02	.1586-03	.1313-03	.1586-03	.9700-01	.6770	531.0
266	180.00	.16000	66.000	.2300-01	.1910-01	.2300-01	.4123-03	.3412-03	.4123-03	.2510	1.404	532.1
266	180.00	.17000	67.000	.6100-01	.5050-01	.6100-01	.1093-02	.9039-03	.1093-02	.6610	3.702	534.6
266	180.00	.20000	69.000	.1500-01	.1240-01	.1500-01	.2683-03	.2220-03	.2683-03	.1630	1.016	531.8
266	180.00	.40100	72.000	.5000-02	.4200-02	.5000-02	.9036-04	.7480-04	.9036-04	.5500-01	.4700	531.0
266	180.00	.50000	73.000	.5000-02	.4100-02	.5000-02	.8977-04	.7431-04	.8977-04	.5500-01	.4670	531.4
266	180.00	.60100	74.000	.5500-02	.4500-02	.5500-02	.9784-04	.8099-04	.9784-04	.6000-01	.4930	531.1
266	180.00	.70100	75.000	.6000-02	.4900-02	.6000-02	.1067-03	.8837-04	.1067-03	.6500-01	.5220	530.1

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGEPAGE 361  
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## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAH DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
272	7.940	1.025	30.03	.0000	180.0	210.7	.2300-01	1265.	93.00	1.000	3751.	.2045-04
273	7.940	1.020	30.01	.0000	180.0	210.4	.2300-01	1268.	93.20	.9990	3755.	.2037-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R	ST FR R =
272	7485-07	0.0175	2444-01	4020-01
273	7501-07	0.0175	2443-01	4028-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(970) BTU/ R FT2SEC	H(101) BTU/ R FT2SEC	H(1AH) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
272	.0000	.0000	1.0000	.7744	.6325	.6649	.1893-01	.1546-01	.1625-01	13.67	58.53	574.9
272	.0000	.5000-02	2.0000	.7518	.6127	.6162	.1838-01	.1498-01	.1506-01	10.24	69.99	581.4
272	.0000	.1000-01	3.0000	.5685	.4812	.4976	.1439-01	.1176-01	.1216-01	8.165	54.37	571.2
272	.0000	.3000-01	5.0000	.2899	.2389	.2618	.7087-02	.5839-02	.6398-02	4.198	23.36	546.3
272	.0000	.4000-01	6.0000	.2396	.1976	.2193	.5056-02	.4830-02	.5360-02	3.487	19.43	543.2
272	.0000	.5000-01	7.0000	.2297	.1891	.2122	.5815-02	.4623-02	.5187-02	3.313	22.31	548.7
272	.0000	.6000-01	8.0000	.2262	.1884	.2105	.5528-02	.4556-02	.5146-02	3.277	20.84	546.8
272	.0000	.7000-01	9.0000	.1948	.1605	.1827	.4761-02	.3923-02	.4465-02	2.818	19.59	546.9
272	.0000	.8000-01	10.000	.1640	.1352	.1547	.4009-02	.3304-02	.3781-02	2.379	16.55	545.3
272	.0000	.9000-01	11.000	.1429	.1179	.1354	.3494-02	.2882-02	.3309-02	2.083	13.27	542.5
272	.0000	1.0000+00	12.000	.1323	.1091	.1258	.3233-02	.2668-02	.3075-02	1.930	11.63	541.9
272	.0000	.12000	14.000	.1217	.1005	.1163	.2974-02	.2456-02	.2844-02	1.784	9.963	539.9
272	.0000	.13000	15.000	.1154	.9530-01	.1105	.2821-02	.2329-02	.2702-02	1.691	9.938	539.3
272	.0000	.14000	16.000	.1054	.8700-01	.1010	.2575-02	.2126-02	.2470-02	1.543	9.843	539.6
272	.0000	.16000	18.000	.1062	.8760-01	.1020	.2595-02	.2142-02	.2494-02	1.553	9.632	540.2
272	.0000	.17000	19.000	.1052	.8690-01	.1012	.2570-02	.2122-02	.2474-02	1.537	9.803	540.6
272	.0000	.18000	20.000	.1055	.8790-01	.1026	.2604-02	.2149-02	.2508-02	1.557	9.930	540.6
272	.0000	.19000	21.000	.1118	.9230-01	.1079	.2733-02	.2257-02	.2636-02	1.641	10.48	538.3
272	.0000	.20000	22.000	.9850-01	.8130-01	.9520-01	.2408-02	.1988-02	.2326-02	1.441	9.192	540.3

AEDC VKF V41B-57A (OH-498) COLLATION DECK  
OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(19TO) BTU/ R F12SEC	H(1TO) BTU/ R F12SEC	H(1TAN) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWOT DEG. R /SEC	TW DEG. R
272	.00000	.22500	23.000	.9220-01	.7610-01	.8930-01	.2253-02	.1861-02	.2182-02	1.351	8.619	539.2
272	.00000	.25000	801.00	.8960-01	.7400-01	.8890-01	.2189-02	.1808-02	.2124-02	1.313	8.376	539.2
272	.00000	.30000	802.00	.8240-01	.6800-01	.8000-01	.2015-02	.1663-02	.1954-02	1.205	7.687	540.4
272	.00000	.35000	803.00	.8440-01	.6960-01	.8180-01	.2062-02	.1701-02	.2000-02	1.230	7.835	542.4
272	.00000	.40000	804.00	.8170-01	.6740-01	.7930-01	.1998-02	.1648-02	.1939-02	1.191	7.811	542.5
272	.00000	.45000	805.00	.7790-01	.6430-01	.7550-01	.1905-02	.1571-02	.1847-02	1.134	7.660	543.2
272	.00000	.50000	806.00	.6930-01	.5710-01	.6720-01	.1694-02	.1397-02	.1643-02	1.008	7.019	543.6
272	.00000	.55000	807.00	.6470-01	.5330-01	.6260-01	.1582-02	.1304-02	.1534-02	.9390	6.973	544.9
272	.00000	.60000	808.00	.5900-01	.4870-01	.5730-01	.1443-02	.1190-02	.1400-02	8570	6.365	544.7
272	.00000	.65000	809.00	.5670-01	.4670-01	.5500-01	.1386-02	.1142-02	.1344-02	8220	6.100	545.6
272	.00000	.70000	810.00	.5350-01	.4420-01	.5200-01	.1310-02	.1080-02	.1270-02	7770	5.962	545.8
272	.00000	.75000	811.00	.5000-01	.4140-01	.4940-01	.1235-02	.1009-02	.1204-02	7980	5.920	545.5
272	.00000	.80000	812.00	.4730-01	.3880-01	.4670-01	.1140-02	.0940-02	.1154-02	8310	6.169	545.2
272	.00000	.85000	813.00	.4460-01	.3610-01	.4400-01	.1051-02	.0851-02	.1072-02	7720	5.931	544.7
272	.00000	.90000	814.00	.4000-01	.3190-01	.3920-01	.0915-03	.0789-03	.0971-03	5930	4.900	540.8
272	.00000	.92500	815.00	.3870-01	.3100-01	.3820-01	.0849-03	.0715-03	.0833-03	5150	4.681	540.2
272	.00000	.95000	816.00	.3520-01	.2910-01	.3490-01	.0620-03	.0412-03	.0541-03	3010	2.244	534.2
272	.00000	.97500	818.00	.2030-01	.1690-01	.2020-01	.4973-03	.4519-03	.5429-03	3310	2.471	533.2
272	.00000	1.0360	819.00	.2240-01	.1850-01	.2220-01	.5464-03	.5154-03	.5801-03	2310	1.954	534.2
272	.00000	1.0630	821.00	.1570-01	.1290-01	.1560-01	.3826-03	.3154-03	.3801-03	1200	.7290	530.3
272	.00000	1.1500	89.000	.8100-02	.6700-02	.8100-02	.1977-03	.1637-03	.1977-03	1200	1.340	529.4
272	.00000	2.0000	91.000	.1440-01	.1190-01	.1440-01	.3526-03	.2920-03	.3526-03	2800-01	.1690	529.0
272	.00000	4.0000	90.000	.1900-02	.1600-02	.1900-02	.4575-04	.3789-04	.4575-04	1.179	9.374	545.3
272	.00000	8.24.00	823.00	.8130-01	.6700-01	.8130-01	.1986-02	.1637-02	.1926-02	1.121	8.903	547.0
272	.00000	8.24.00	824.00	.7750-01	.6380-01	.7510-01	.1834-02	.1560-02	.1837-02	1.233-02	6.689	547.5
272	.00000	8.26.00	825.00	.5500-01	.4290-01	.5340-01	.1272-02	.1047-02	.1233-02	8350	6.189	547.0
272	.00000	8.27.00	826.00	.5770-01	.4540-01	.5600-01	.1411-02	.1162-02	.1368-02	8160	6.057	545.6
272	.00000	9.0000	828.00	.5630-01	.4400-01	.5460-01	.1376-02	.1134-02	.1335-02	6500	5.177	542.5
272	.00000	9.2500	971.00	.4460-01	.3680-01	.4380-01	.1090-02	.0896-02	.1072-02	1.311	9.716	547.9
272	.00000	9.5000	975.00	.9280-01	.7480-01	.9080-01	.2219-02	.1827-02	.2219-02	1.778	13.17	549.6
272	.00000	9.5000	975.00	.1235	.1017	.1235	.3019-02	.2485-02	.3019-02	1.329	9.896	539.4
272	.00000	9.7500	980.00	.9660-01	.7480-01	.9080-01	.2214-02	.1828-02	.2214-02	1.640	1.024	529.1
272	.00000	2.0000	93.000	.1100-01	.9100-02	.1100-01	.2655-03	.2232-03	.2655-03	1.640	7.163	541.9
272	.00000	9.2500	970.00	.6600-01	.5450-01	.6600-01	.1614-02	.1332-02	.1614-02	1.063	7.903	541.8
272	.00000	9.5000	974.00	.7280-01	.6010-01	.7280-01	.1781-02	.1469-02	.1781-02	2.399	2.399	529.1
272	.00000	9.7500	974.00	.2150-01	.1720-01	.2150-01	.5258-03	.4354-03	.5258-03	3210	10.82	544.3
272	.00000	4.0000	831.00+10	.1070	.8820-01	.1037	.2515-02	.2156-02	.2536-02	1.554	9.016	547.3
272	.00000	8.32.00	832.00	.8690-01	.7160-01	.8430-01	.2125-02	.1750-02	.2060-02	1.257	7.311	548.6
272	.00000	8.32.00	833.00	.7520-01	.6200-01	.7300-01	.1839-02	.1514-02	.1783-02	1.085	7.173	547.6
272	.00000	8.34.00	834.00	.6470-01	.5330-01	.6280-01	.1583-02	.1304-02	.1535-02	.9350	5.455	545.0
272	.00000	8.35.00	835.00	.5230-01	.4310-01	.6070-01	.1279-02	.1054-02	.1240-02	.7590	4.825	541.9
272	.00000	8.36.00	836.00	.4450-01	.3670-01	.4370-01	.1087-02	.0873-03	.1069-02	.6490		

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AEDC VKF V418-57A (OH-498) COLLATION DECK  
OH-498 (AEDC V418-57A) OFB TER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.5	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/R FT2SEC	H(TO) BTU/R FT2SEC	H(TAN) BTU/R FT2SEC	QDOT BTU/ SEC	DTWOT DEG. R /SEC	TM DEG. R
272	32.000	.95000	837.00	.4630-01	.3820-01	.4570-01	.1131-02	.9338-03	.1118-02	.6760	5.205	540.8
272	32.000	.97500	838.00	.4080-01	.3350-01	.4020-01	.9921-03	.8193-03	.9828-03	.5950	4.750	538.6
272	32.000	1.01500	839.00	.2400-01	.1980-01	.2290-01	.5855-03	.4842-03	.5596-03	.3540	2.880	534.6
272	32.000	1.0300	840.00	.2670-01	.2210-01	.2580-01	.6536-03	.5405-03	.6247-03	.3950	3.104	534.3
272	32.000	1.0450	841.00	.3220-01	.2660-01	.3080-01	.7871-03	.6509-03	.7522-03	.4760	3.676	533.9
272	32.000	1.0600	842.00	.2660-01	.2200-01	.2540-01	.6493-03	.5370-03	.6205-03	.3930	3.258	533.8
272	45.000	.92500	969.00	.8700-02	.7200-02	.8700-02	.2119-03	.1754-03	.2119-03	.1290	.9650	529.6
272	45.000	.95000	973.00	.7000-03	.6000-03	.7000-03	.1649-04	.1365-04	.1649-04	.1000-01	.7500-01	528.6
272	45.000	.97500	978.00	.7000-03	.5000-03	.7000-03	.1600-04	.1325-04	.1600-04	.1000-01	.7300-01	528.0
272	75.000	.97500	977.00	.4000-03	.4000-03	.4000-03	.1087-04	.9000-05	.1087-04	.7000-02	.5000-01	528.1
272	85.000	.97500	976.00	.6000-03	.5000-03	.6000-03	.1553-04	.1286-04	.1553-04	.9000-02	.7100-01	528.2
272	180.00	.10000-01	59.000	.1809	.1492	.1805	.4622-02	.3647-02	.4422-02	2.632	19.55	543.5
272	180.00	.25000-01	60.000	.5180-01	.4290-01	.5180-01	.1267-02	.1048-02	.1267-02	.7650	5.520	535.3
272	180.00	.50000-01	61.000	.2290-01	.1590-01	.2290-01	.5596-03	.4630-03	.5596-03	.3390	2.173	532.3
272	180.00	.75000-01	62.000	.1140-01	.9400-02	.1140-01	.2778-03	.2300-03	.2778-03	.1690	1.082	531.1
272	180.00	.10000+00	63.000	.8600-02	.7300-02	.8600-02	.2152-03	.1781-03	.2152-03	.1310	.8630	530.9
272	180.00	.15500	64.000	.9500-02	.7800-02	.9500-02	.2311-03	.1913-03	.2311-03	.1410	.9860	530.3
272	180.00	.3000	65.000	.1280-01	.1060-01	.1280-01	.3134-03	.2595-03	.3134-03	.1910	1.337	530.3
272	180.00	.16000	66.000	.3340-01	.3260-01	.3340-01	.9640-03	.7975-03	.9640-03	.5840	3.272	532.7
272	180.00	.17000	67.000	.7410-01	.6130-01	.7410-01	.1812-02	.1498-02	.1812-02	1.093	6.117	535.2
272	180.00	.20000	69.000	.1550-01	.1280-01	.1550-01	.3779-03	.3128-03	.3779-03	.2300	1.433	530.1
272	180.00	.40100	72.000	.6000-02	.5000-02	.6000-02	.1474-03	.1221-03	.1474-03	.9000-01	.7690	529.4
272	180.00	.50000	72.000	.7000-02	.6500-02	.7000-02	.1932-03	.1600-03	.1932-03	.1180	1.007	529.7
272	180.00	.60100	74.000	.7000-02	.5800-02	.7000-02	.1713-03	.1419-03	.1713-03	.1040	.8640	529.7
272	180.00	.70100	75.000	.7500-02	.6200-02	.7500-02	.1832-03	.1517-03	.1832-03	.1120	.8970	529.0

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AEDC VKF V418-57A (OH-498) COLLATION DECK

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(RV1820)

## FUSELAGE

OH-498 (AEDC V418-57A) ORBITER FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
 SDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEC.	PHI MODEL DEC.	P0 PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
290	7.940	2.041	30.05	.0000	180.0	429.7	.4600-01	1286.	94.50	2.040	3782.	.4105-04
291	7.940	2.046	30.06	.0000	180.0	429.0	.4600-01	1282.	94.20	2.035	3776.	.4109-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR R =
290	.7506-07	.3501-01	0.0175
291	.7595-07	.3496-01	.2840-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
290	.00000	.00000	1.0000	.7560	.6155	.6476	.2646-01	.2155-01	.2267-01	14.91	80.99	593.8
290	.00000	.50000-02	2.0000	.7341	.5961	.5936	.2570-01	.2087-01	.2099-01	14.27	96.52	601.9
290	.00000	.10000-01	3.0000	.5932	.4840	.5006	.2077-01	.1694-01	.1752-01	11.83	78.12	587.7
290	.00000	.30000-01	5.0000	.2848	.2348	.2572	.9972-02	.8219-02	.9004-02	6.013	33.32	554.2
290	.00000	.40000-01	6.0000	.2349	.1939	.2151	.8225-02	.6789-02	.7531-02	4.998	27.76	549.5
290	.00000	.50000-01	7.0000	.2239	.1843	.2068	.7837-02	.6452-02	.7239-02	4.695	31.47	558.1
290	.00000	.60000-01	8.0000	.2227	.1836	.2073	.7796-02	.6426-02	.7258-02	4.704	29.79	553.8
290	.00000	.70000-01	9.0000	.1906	.1571	.1787	.6673-02	.5498-02	.6257-02	4.016	27.80	555.4
290	.00000	.80000-01	10.000	.1517	.1252	.1431	.5312-02	.4382-02	.5011-02	3.219	22.33	551.1
290	.00000	.90000-01	11.000	.1419	.1172	.1345	.4569-02	.4104-02	.4708-02	3.031	19.27	547.1
290	.00000	1.0000+00	12.000	.1320	.1091	.1256	.4621-02	.3818-02	.4396-02	2.822	15.97	546.4
290	.00000	.12000	14.000	.1163	.9610-01	.1112	.4071-02	.3366-02	.3893-02	2.496	13.90	544.0
290	.00000	.13000	15.000	.1130	.9340-01	.1082	.3955-02	.3269-02	.3789-02	2.422	14.20	544.6
290	.00000	.14000	16.000	.1024	.8460-01	.9820-01	.3585-02	.2963-02	.3439-02	2.195	13.97	544.9
290	.00000	.16000	18.000	.1043	.8610-01	.1002	.3650-02	.3016-02	.3508-02	2.231	13.80	545.8
290	.00000	.17000	19.000	.1041	.8500-01	.1002	.3645-02	.3011-02	.3508-02	2.226	14.15	546.5
290	.00000	.18000	20.000	.1056	.8720-01	.1017	.3695-02	.3052-02	.3559-02	2.256	14.34	546.6
290	.00000	.19000	21.000	.9530-01	.7880-01	.9190-01	.3337-02	.2759-02	.3219-02	2.048	13.04	543.3
290	.00000	.20000	22.000	.9810-01	.8100-01	.9470-01	.3433-02	.2836-02	.3316-02	2.099	13.35	545.8

REPRODUCIBILITY OF 11.  
 ORIGINAL PAGE IS POOR

(RV1820)

## AEDC VKF V41B-57A (OH-49B) COLLATION DECK

## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(OTO) BTU/R FT2SEC	H(OTO) BTU/R FT2SEC	H(OTI) BTU/R FT2SEC	H(OTI) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
290	.00000	.22500	23.000	.9100-01	.7520-01	.8810-01	.3185-02	.2633-02	.2633-02	.3085-02	1.952	12.42	544.3
290	.00000	.25000	801.00	.8910-01	.7370-01	.8650-01	.3120-02	.2579-02	.2579-02	.3027-02	1.912	12.17	544.3
290	.00000	.30000	802.00	.8090-01	.6580-01	.7840-01	.2830-02	.2339-02	.2339-02	.2745-02	1.733	11.02	544.9
293	.00000	.35000	803.00	.8120-01	.6710-01	.7880-01	.2842-02	.2347-02	.2347-02	.2757-02	1.732	11.01	547.7
290	.00000	.40000	804.00	.7910-01	.6530-01	.7680-01	.2771-02	.2287-02	.2287-02	.2697-02	1.687	11.03	548.4
290	.00000	.45000	805.00	.7660-01	.6330-01	.7450-01	.2687-02	.2218-02	.2218-02	.2606-02	1.632	10.98	550.0
290	.00000	.50000	806.00	.6760-01	.5580-01	.6550-01	.2356-02	.1952-02	.1952-02	.2294-02	1.435	9.954	550.8
290	.00000	.55000	807.00	.6440-01	.5310-01	.6250-01	.2255-02	.1859-02	.1859-02	.2187-02	1.362	10.07	553.2
290	.00000	.60000	808.00	.5900-01	.4850-01	.5720-01	.2035-02	.1703-02	.1703-02	.2003-02	1.247	9.217	553.3
290	.00000	.65000	809.00	.5310-01	.4370-01	.5150-01	.1858-02	.1531-02	.1531-02	.1801-02	1.113	8.256	555.2
290	.00000	.70000	810.00	.5320-01	.4380-01	.5160-01	.1852-02	.1534-02	.1534-02	.1805-02	1.120	8.553	555.6
290	.00000	.75000	811.00	.5730-01	.4760-01	.5600-01	.2023-02	.1667-02	.1667-02	.1952-02	1.217	8.990	555.4
290	.00000	.80000	812.00	.6110-01	.5030-01	.5920-01	.2138-02	.1762-02	.1762-02	.2073-02	1.287	9.507	555.1
290	.00000	.85000	813.00	.6160-01	.5090-01	.6040-01	.2156-02	.1778-02	.1778-02	.2115-02	1.300	9.934	554.6
290	.00000	.90000	814.00	.5910-01	.4970-01	.5800-01	.2067-02	.1706-02	.1706-02	.2032-02	1.253	8.977	550.8
290	.00000	.92500	815.00	.4650-01	.4000-01	.4780-01	.1688-02	.1402-02	.1402-02	.1673-02	1.033	8.504	548.7
290	.00000	.95000	816.00	.4570-01	.3770-01	.4510-01	.1599-02	.1320-02	.1320-02	.1580-02	.9730	8.009	548.8
290	.00000	.97500	817.00	.4620-01	.3860-01	.4640-01	.1639-02	.1352-02	.1352-02	.1623-02	.9930	8.163	551.3
290	.00000	1.0150	818.00	.3250-01	.2690-01	.3220-01	.1136-02	.9403-03	.9403-03	.1129-02	.7010	5.219	539.9
290	.00000	1.0300	819.00	.3200-01	.2650-01	.3180-01	.1121-02	.9285-03	.9285-03	.1114-02	.6940	5.172	537.9
290	.00000	1.0600	821.00	.2670-01	.2210-01	.2650-01	.9243-03	.7738-03	.7738-03	.9283-03	.5790	4.863	537.5
290	.00000	1.5000	89.000	.8200-02	.6600-02	.8200-02	.2878-03	.2339-03	.2339-03	.2878-03	.1810	1.096	529.6
290	.00000	20000	91.000	.1730-01	.1440-01	.1730-01	.6052-03	.5025-03	.5025-03	.6052-03	.3810	2.376	527.9
290	.00000	50000-01	90.000	.8800-02	.7300-02	.8800-02	.3098-03	.2573-03	.2573-03	.3098-03	.1950	1.185	527.4
290	.00000	40000	833.00	.8040-01	.6630-01	.7800-01	.2815-02	.2320-02	.2320-02	.2729-02	1.697	13.43	554.2
290	.00000	50000	824.00	.7460-01	.6140-01	.7230-01	.2611-02	.2150-02	.2150-02	.2531-02	1.567	12.38	557.1
290	.00000	60000	825.00	.5140-01	.4240-01	.4990-01	.1800-02	.1483-02	.1483-02	.1745-02	1.080	9.563	557.0
290	.00000	70000	826.00	.6310-01	.4950-01	.5820-01	.2103-02	.1731-02	.1731-02	.2039-02	1.259	9.284	558.4
290	.00000	80000	827.00	.5970-01	.4920-01	.5790-01	.2091-02	.1723-02	.1723-02	.2028-02	1.258	9.286	555.7
290	.00000	90000	828.00	.5270-01	.4350-01	.5180-01	.1944-02	.1521-02	.1521-02	.1812-02	1.118	8.859	551.2
290	.00000	92500	971.00	.1243	.1023	.1243	.4351-02	.3582-02	.3582-02	.4351-02	2.607	19.22	523.0
290	.00000	95000	975.00	.1629	.1340	.1629	.5704-02	.4682-02	.4682-02	.5704-02	3.397	25.01	561.6
290	.00000	97500	980.00	.1130	.9340-01	.1130	.3957-02	.3271-02	.3271-02	.3957-02	2.425	18.01	544.3
290	.00000	20000	93.000	.1150-01	.9600-02	.1150-01	.4033-03	.3350-03	.3350-03	.4033-03	2.540	1.585	527.3
290	.00000	92500	970.00	.9290-01	.9160-01	.9890-01	.3463-02	.2857-02	.2857-02	.4012-02	2.100	15.54	550.8
290	.00000	95000	974.00	.1146	.9460-01	.1146	.4012-02	.3310-02	.3310-02	.4012-02	2.431	17.99	551.2
290	.00000	97500	979.00	.4650-01	.3870-01	.4660-01	.1631-02	.1354-02	.1354-02	.1631-02	1.028	7.699	526.8
290	.00000	40000	83100+10	.1085	.8950-01	.1052	.3798-02	.3133-02	.3133-02	.3684-02	2.299	15.95	551.8
290	.00000	50000	832.00	.8460-01	.6970-01	.8200-01	.2951-02	.2433-02	.2433-02	.2871-02	1.778	12.70	556.7
290	.00000	60000	833.00	.7650-01	.5980-01	.7040-01	.2542-02	.2033-02	.2033-02	.2455-02	1.522	10.20	558.6
290	.00000	70000	834.00	.4790-01	.3940-01	.4640-01	.1677-02	.1380-02	.1380-02	.1625-02	1.003	7.644	559.2
290	.00000	80000	835.00	.5550-01	.4570-01	.5380-01	.1943-02	.1601-02	.1601-02	.1884-02	1.170	8.360	555.0
290	.00000	90000	836.00	.5230-01	.4310-01	.5140-01	.1830-02	.1510-02	.1510-02	.1798-02	1.110	8.221	550.2

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TM DEG. R
290	32.000	.95000	837.00	.5550-01	.4580-01	.5480-01	.1942-02	.1603-02	.1918-02	1.182	9.056	548.7
290	32.000	.97500	838.00	.5320-01	.4400-01	.5270-01	.1864-02	.1540-02	.1846-02	1.139	9.044	546.5
290	32.000	1.0150	839.00	.3420-01	.2830-01	.3270-01	.1199-02	.9920-03	.1146-02	.7390	5.998	540.7
290	32.000	1.0300	840.00	.3850-01	.3190-01	.3680-01	.1349-02	.1117-02	.1289-02	.8330	6.529	539.5
290	32.000	1.0450	841.00	.4300-01	.3420-01	.3940-01	.1445-02	.1196-02	.1391-02	.8930	6.877	539.0
290	32.000	1.0600	842.00	.3750-01	.3100-01	.3580-01	.1312-02	.1087-02	.1255-02	.8130	6.730	537.7
290	45.000	.92500	959.00	.1330-01	.1100-01	.1330-01	.4648-03	.3857-03	.4648-03	.2920	2.181	529.7
290	45.000	.95000	973.00	.9000-03	.7000-03	.9000-03	.3018-04	.2506-04	.3018-04	.1900-01	.1420	527.8
290	45.000	.97500	973.00	.8000-03	.7000-03	.8000-03	.2816-04	.2338-04	.2816-04	.1800-01	.1330	527.0
290	75.000	.97500	977.00	.6000-03	.5000-03	.6000-03	.2026-04	.1683-04	.2026-04	.1300-01	.9600-01	527.2
290	85.000	.97500	976.00	.1000-02	.8000-03	.1000-02	.3369-04	.2798-04	.3369-04	.2100-01	.1590	527.2
290	180.00	.10000-01	59.000	.1762	.1454	.1762	.6167-02	.5090-02	.6167-02	3.749	27.76	549.3
290	180.00	.25000-01	60.000	.4890-01	.4050-01	.4890-01	.1712-02	.1418-02	.1712-02	1.061	7.645	537.9
290	180.00	.50000-01	61.000	.2120-01	.1760-01	.2120-01	.7418-03	.6150-03	.7418-03	.4630	2.960	533.6
290	180.00	.75000-01	62.000	.1110-01	.9200-02	.1110-01	.3881-03	.3219-03	.3881-03	.2430	1.555	531.7
290	180.00	.10000+00	63.000	.9400-02	.7800-02	.9400-02	.3303-03	.2740-03	.3303-03	.2070	1.365	530.8
290	180.00	.12500	64.000	.1080-01	.8900-02	.1080-01	.3774-03	.3131-03	.3774-03	.2370	1.658	530.4
290	180.00	.15000	65.000	.1890-01	.1570-01	.1890-01	.6603-03	.5480-03	.6603-03	.4140	2.903	530.1
290	180.00	.16000	66.000	.5870-01	.4860-01	.5870-01	.2055-02	.1703-02	.2055-02	1.278	7.148	535.4
290	180.00	.17000	67.000	.9300-01	.7450-01	.9300-01	.3150-02	.2610-02	.3150-02	1.957	10.94	536.0
290	180.00	.20000	69.000	.1530-01	.1270-01	.1530-01	.5357-03	.4447-03	.5357-03	.3370	2.101	528.3
290	180.00	.40100	72.000	.9100-02	.7600-02	.9100-02	.3193-03	.2651-03	.3193-03	.2010	1.718	528.8
290	180.00	.50000	73.000	.8600-02	.7100-02	.8600-02	.2994-03	.2366-03	.2994-03	.1880	1.610	529.3
290	180.00	.60100	74.000	.6200-02	.5200-02	.6200-02	.2183-03	.1812-03	.2183-03	.1370	1.137	528.6
290	180.00	.70100	75.000	.6100-02	.5100-02	.6100-02	.2153-03	.1788-03	.2153-03	.1350	1.088	528.0



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## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
318	7.990	3.029	30.05	.0000	180.0	675.9	.7000-01	1321.	96.00	3.119	3835.	.6102-04
319	7.990	2.966	30.03	.0000	180.0	677.0	.7000-01	1341.	97.40	3.124	3864.	.6021-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
318	.7726-07	.4350-01	0.0175
319	.7844-07	.4355-01	.2337-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
318	.00000	.00000	1.0000	.7817	.6354	.6688	.3400-01	.2764-01	.2909-01	19.51	104.9	615.2
318	.00000	.50000-02	2.0000	.7471	.6053	.6089	.3250-01	.2633-01	.2648-01	18.33	122.6	625.1
318	.00000	.10000-01	3.0000	.6075	.4951	.5122	.2543-01	.2154-01	.2228-01	15.38	100.6	607.2
318	.00000	.20000-01	4.0000	.3926	.3232	.3472	.1708-01	.1406-01	.1510-01	10.51	57.68	573.5
318	.00000	.30000-01	5.0000	.2866	.2355	.2590	.1247-01	.1029-01	.1126-01	7.776	42.85	565.4
318	.00000	.40000-01	6.0000	.2380	.1967	.2181	.1035-01	.8555-02	.9485-02	6.509	35.95	560.4
318	.00000	.50000-01	7.0000	.2231	.1838	.2061	.9703-02	.7994-02	.8963-02	5.996	39.93	571.1
318	.00000	.60000-01	8.0000	.2211	.1824	.2059	.9617-02	.7934-02	.8955-02	5.989	37.70	566.3
318	.00000	.70000-01	9.0000	.1924	.1586	.1804	.8369-02	.6899-02	.7848-02	5.188	35.67	569.1
318	.00000	.80000-01	10.000	.1545	.1275	.1457	.6718-02	.5546-02	.6339-02	4.200	28.95	558.8
318	.00000	.90000-01	11.000	.1457	.1205	.1381	.6338-02	.5240-02	.6006-02	3.995	25.24	558.7
318	.00000	.10000+00	12.000	.1324	.1095	.1260	.5759-02	.4761-02	.5479-02	3.631	21.70	558.7
318	.00000	.12000	14.000	.1189	.9840-01	.1138	.5172-02	.4282-02	.4948-02	3.286	18.21	553.8
318	.00000	.1124	15.000	.1124	.9300-01	.1077	.4888-02	.4045-02	.4683-02	3.100	18.08	554.8
318	.00000	.14000	16.000	.1028	.8510-01	.9860-01	.4471-02	.3699-02	.4289-02	2.832	17.92	555.7
318	.00000	.16000	18.000	.1078	.8910-01	.1036	.4687-02	.3876-02	.4508-02	2.961	18.20	557.3
318	.00000	.17000	19.000	.1062	.8780-01	.1022	.4620-02	.3820-02	.4447-02	2.914	18.41	558.4
318	.00000	.18000	20.000	.1062	.8780-01	.1023	.4619-02	.3818-02	.4450-02	2.910	18.38	559.1
318	.00000	.19000	21.000	.1023	.8470-01	.9870-01	.4450-02	.3683-02	.4294-02	2.821	17.85	555.2

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(RV1B20)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(191) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
318	.00000	.20000	22.000	.1003	.8290-01	.9680-01	.4361-02	.3606-02	.4212-02	2.750	17.38	558.4
318	.00000	.22500	23.000	.9230-01	.7630-01	.8940-01	.4013-02	.3313-02	.3886-02	2.537	16.04	557.0
318	.00000	.25000	801.00	.9020-01	.7450-01	.8750-01	.3922-02	.3242-02	.3804-02	2.471	15.61	559.0
318	.00000	.30000	802.00	.8280-01	.6840-01	.8030-01	.3601-02	.2976-02	.3494-02	2.236	14.31	559.8
318	.00000	.35000	803.00	.8380-01	.6910-01	.8120-01	.3643-02	.3007-02	.3533-02	2.275	14.33	564.5
318	.00000	.40000	804.00	.8390-01	.6930-01	.8140-01	.3651-02	.3012-02	.3540-02	2.275	14.75	565.8
318	.00300	.45000	805.00	.7760-01	.6400-01	.7520-01	.3375-02	.2783-02	.3273-02	2.096	13.98	568.1
318	.00000	.50000	806.00	.6950-01	.5730-01	.6740-01	.3022-02	.2490-02	.2930-02	1.872	12.86	569.6
318	.00000	.55000	807.00	.6830-01	.5620-01	.6620-01	.2970-02	.2445-02	.2879-02	1.828	13.38	573.5
318	.00000	.60000	808.00	.6440-01	.5310-01	.6250-01	.2803-02	.2308-02	.2717-02	1.724	12.61	574.1
318	.00000	.65000	809.00	.6340-01	.5210-01	.6140-01	.2757-02	.2267-02	.2672-02	1.686	12.31	577.7
318	.00000	.70000	810.00	.7000-01	.5750-01	.6780-01	.3043-02	.2501-02	.2949-02	1.855	14.00	579.7
318	.00000	.75000	811.00	.8650-01	.7110-01	.8390-01	.3765-02	.3094-02	.3649-02	2.295	16.75	579.3
318	.00000	.80000	812.00	.1051	.8640-01	.1019	.4573-02	.3757-02	.4432-02	2.783	20.29	580.6
318	.00000	.85000	813.00	.1169	.9600-01	.1146	.5064-02	.4177-02	.4983-02	3.093	23.33	580.7
318	.00000	.90000	814.00	.1214	.9990-01	.1193	.5281-02	.4344-02	.5188-02	3.236	22.89	576.2
318	.00000	.95000	815.00	.1032	.8510-01	.1018	.4933-02	.3700-02	.4426-02	2.770	22.53	572.5
318	.00000	.95000	816.00	.1090	.8970-01	.1076	.4740-02	.3902-02	.4682-02	2.915	23.69	574.2
318	.00000	.97500	817.00	.1181	.9710-01	.1169	.5136-02	.4225-02	.5086-02	3.146	25.54	576.5
318	.00000	1.0150	818.00	.8450-01	.6880-01	.8390-01	.3674-02	.3036-02	.3650-02	2.307	16.99	561.1
318	.00000	1.0300	819.00	.8260-01	.6830-01	.8210-01	.3594-02	.2972-02	.3570-02	2.271	16.75	557.2
318	.00000	1.0500	820.00	.7460-01	.6160-01	.7410-01	.3244-02	.2679-02	.3223-02	2.034	16.94	562.1
318	10.000	.15000	89.000	.6600-02	.5500-02	.6600-02	.2899-03	.2401-03	.2889-03	1.880	1.135	538.7
318	.11.500	.20000	91.000	.2200-01	.1820-01	.2200-01	.3552-03	.7937-03	.9552-03	.6200	3.845	539.9
318	.14.000	.50000-01	90.000	.4100-02	.3400-02	.4100-02	.1783-03	.1482-03	.1783-03	.1160	.6990	539.4
318	.17.500	.40000	823.00	.8420-01	.6940-01	.8170-01	.3664-02	.3019-02	.3553-02	2.266	17.79	570.6
318	.17.500	.50000	824.00	.7740-01	.6370-01	.7510-01	.3368-02	.2770-02	.3264-02	2.062	16.13	577.0
318	.17.500	.60000	825.00	.9530-01	.4940-01	.5360-01	.3404-02	.1977-02	.2330-02	1.469	12.87	581.2
318	.17.500	.70000	826.00	.7520-01	.6180-01	.7250-01	.3271-02	.2687-02	.3170-02	1.989	14.50	579.4
318	.17.500	.80000	827.00	.9460-01	.7780-01	.9170-01	.4115-02	.3382-02	.3988-02	2.509	18.30	579.4
318	.17.500	.90000	828.00	.9370-01	.8120-01	.9700-01	.4294-02	.3533-02	.4218-02	2.633	20.62	575.8
318	20.000	.92500	971.00	.1309	.1076	.1309	.5694-02	.4680-02	.5694-02	3.473	25.35	579.1
318	20.000	.95000	975.00	.1733	.1422	.1733	.7536-02	.6185-02	.7536-02	4.556	33.15	584.6
318	20.000	.97500	980.00	.1219	.1006	.1219	.5301-02	.4376-02	.5301-02	3.311	24.33	564.6
318	24.000	.20000	93.000	.1180-01	.9800-02	.1180-01	.5113-03	.4250-03	.5113-03	.3330	2.065	538.4
318	30.000	.92500	970.00	.1104	.9100-01	.1104	.4803-02	.3560-02	.4803-02	2.981	21.87	568.4
318	30.000	.95000	974.00	.1324	.1090	.1324	.5757-02	.4740-02	.5757-02	3.545	25.94	573.4
318	30.000	.97500	979.00	.4450-01	.3590-01	.4450-01	.1934-02	.1606-02	.1934-02	1.251	9.298	542.3
318	32.000	.40000	.83100+10	.1053	.8770-01	.1031	.4623-02	.3813-02	.4483-02	2.874	19.77	567.4
318	32.000	.50000	832.00	.8350-01	.7370-01	.8680-01	.3694-02	.3205-02	.3775-02	2.392	16.93	574.8
318	32.000	.60000	833.00	.7840-01	.6440-01	.7600-01	.3411-02	.2803-02	.3306-02	2.078	13.78	579.9
318	32.000	.70000	834.00	.6920-01	.5660-01	.6700-01	.3009-02	.2469-02	.2916-02	1.816	13.67	585.6
318	32.000	.80000	835.00	.7970-01	.6550-01	.7720-01	.3467-02	.2849-02	.3360-02	2.112	14.91	579.8

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B20)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2 SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
318	32.000	.93000	836.00	.9330-01	.7620-01	.9160-01	.4057-02	.3340-02	.3983-02	2.498	18.28	573.3
318	32.000	.95000	837.00	.1071	.8830-01	.1038	.4550-02	.3839-02	.4603-02	2.879	21.32	571.3
318	32.000	.97500	838.00	.1119	.9210-01	.1108	.4665-02	.4005-02	.4818-02	2.994	23.47	573.6
318	32.000	1.0150	839.00	.8300-01	.6830-01	.7930-01	.3510-02	.2980-02	.3448-02	2.259	18.12	563.3
318	32.000	1.0300	840.00	.8270-01	.6830-01	.7900-01	.3595-02	.2972-02	.3435-02	2.265	17.57	559.2
318	32.000	1.0450	841.00	.9120-01	.7530-01	.8710-01	.3555-02	.3277-02	.3769-02	2.492	18.98	550.8
318	32.000	1.0600	842.00	.7440-01	.6150-01	.7110-01	.3233-02	.2674-02	.3031-02	2.037	16.68	559.3
318	45.000	.92500	559.00	.2000-01	.1660-01	.2000-01	.6632-03	.7216-03	.8632-03	.5610	4.171	543.2
318	45.000	.95000	573.00	.1300-02	.1090-02	.1300-02	.5443-04	.4522-04	.5443-04	.3500-01	.2630	540.6
318	45.000	.97500	578.00	.1500-02	.1300-02	.1500-02	.6621-04	.5501-04	.6621-04	.4300-01	.3500	539.9
318	75.000	.97500	977.00	.1300-02	.1100-02	.1300-02	.5585-04	.4641-04	.5585-04	.3500-01	.2700	540.3
318	85.000	.97500	976.00	.1700-02	.1400-02	.1700-02	.7235-04	.6011-04	.7235-04	.4700-01	.3490	540.0
318	180.00	.10000-01	59.000	.1745	.1442	.1745	.7589-02	.6273-02	.7589-02	4.779	35.22	559.3
318	180.00	.25000-01	60.000	.4870-01	.4040-01	.4970-01	.2120-02	.1759-02	.2120-02	1.366	9.815	544.5
318	180.00	.50000-01	61.000	.2630-01	.1680-01	.2020-01	.8784-03	.7296-03	.8784-03	.5690	3.526	541.4
318	180.00	.75000-01	62.000	.1630-01	.9000-02	.1090-01	.4731-03	.3931-03	.4731-03	.3070	1.557	540.5
318	180.00	.10000-00	63.000	.9500-02	.7900-02	.9500-02	.4123-03	.3425-03	.4123-03	.2670	1.755	540.5
318	180.00	.12500	64.000	.1250-01	.1040-01	.1250-01	.5443-03	.4522-03	.5443-03	.3530	2.462	540.6
318	180.00	.15000	65.000	.2330-01	.1930-01	.2320-01	.1093-02	.8372-03	.1008-02	.6530	4.553	541.2
318	180.00	.16000	65.000	.7270-01	.6030-01	.7270-01	.3164-02	.2623-02	.3164-02	2.025	11.25	548.9
318	180.00	.17000	67.000	.9470-01	.7650-01	.9470-01	.4121-02	.3415-02	.4121-02	2.636	14.64	549.4
318	180.00	.19000	69.000	.1430-01	.1240-01	.1480-01	.6474-03	.5330-03	.6474-03	.4210	2.610	539.2
318	180.00	.20000	72.000	.1180-01	.9800-02	.1180-01	.5141-03	.4271-03	.5141-03	.3340	2.838	540.1
318	180.00	.50000	73.000	.9400-02	.7800-02	.9400-02	.4108-03	.3413-03	.4108-03	.2660	2.266	540.4
318	180.00	.60100	74.000	.6400-02	.5300-02	.6400-02	.2781-03	.2310-03	.2781-03	.1800	1.484	540.7
318	180.00	.70100	75.000	.6600-02	.5500-02	.6600-02	.2854-03	.2360-03	.2854-03	.1860	1.483	539.9

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1820)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	PNVL X10 <sup>3</sup> /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
312	8.000	3.745	30.05	.0000	180.0	859.9	.8800-01	1344.	97.40	3.346	3868.	.7589-04
313	8.000	3.766	30.06	.0000	180.0	862.9	.8800-01	1342.	97.20	3.960	3865.	.7626-04

RUN NUMBER	MU	LB-SEC /F <sup>2</sup>	ST FR R =
312	7832-07	.4307-01	0.0175
313	7828-07	.4914-01	.2094-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
312	.0000	.0000	1.0000	.7746	.5283	.6616	.3801-01	.3083-01	.3246-01	21.93	117.0	632.2
312	.0000	.5000-02	2.0000	.7464	.6029	.6065	.3662-01	.2958-01	.2976-01	20.67	136.9	644.8
312	.0000	.1000-01	3.0000	.6161	.5010	.5184	.3023-01	.2458-01	.2544-01	17.69	114.7	624.3
312	.0000	.2000-01	4.0000	.3926	.3231	.3471	.1926-01	.1585-01	.1703-01	12.04	65.69	584.6
312	.0000	.3000-01	5.0000	.2901	.2394	.2621	.1424-01	.1175-01	.1286-01	9.033	49.54	574.9
312	.0000	.4000-01	6.0000	.2459	.2033	.2253	.1207-01	.9973-02	.1105-01	7.727	42.50	563.9
312	.0000	.5000-01	7.0000	.2039	.1661	.2087	.1108-01	.9129-02	.1024-01	6.962	46.14	581.0
312	.0000	.6000-01	8.0000	.2542	.1850	.2035	.1100-01	.9076-02	.1024-01	6.969	43.66	575.8
312	.0000	.7000-01	9.0000	.1530	.1365	.1781	.9330-02	.7627-02	.8740-02	5.876	40.20	578.9
312	.0000	.8000-01	10.000	.1459	.1255	.1434	.7457-02	.6153-02	.7037-02	4.751	32.61	572.2
312	.0000	.9000-01	11.000	.1459	.1215	.1393	.7269-02	.5953-02	.6833-02	4.633	29.16	566.7
312	.0000	1.0000+00	12.000	.1323	.1094	.1255	.6491-02	.5369-02	.6176-02	4.174	24.85	566.3
312	.0000	.1000	13.000	.1193	.9930-01	.1147	.5884-02	.4873-02	.5629-02	3.814	21.06	561.2
312	.0000	.1200	14.000	.1103	.9190-01	.1053	.5443-02	.4507-02	.5216-02	3.522	20.46	562.2
312	.0000	.1400	15.000	.1022	.8450-01	.1011	.5014-02	.4151-02	.4811-02	3.240	20.43	563.1
312	.0000	.1600	16.000	.1032	.8250-01	.1041	.5311-02	.4394-02	.5107-02	3.421	20.95	565.2
312	.0000	.1800	17.000	.1055	.8730-01	.1016	.5180-02	.4284-02	.4937-02	3.330	20.96	566.5
312	.0000	.2000	18.000	.1044	.8650-01	.1036	.5123-02	.4237-02	.4935-02	3.291	20.71	566.9
312	.0000	.2200	19.000	.1036	.8570-01	.9930-01	.5081-02	.4206-02	.4903-02	3.283	20.69	563.7

REPRODUCIBILITY OF THE  
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AEDC VKF V41B-57A (OH-45B) COLLATION CHECK

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(RV1820)

OH-45B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAW)	H(OTO) BTU/R FT2SEC	H(OTO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
312	.0000	.2000	22.000	.5830-01	.8180-01	.9550-01	.4852-02	.4013-02	.4687-02	3.120	19.64	566.4
312	.0000	.2250	23.000	.9360-01	.7740-01	.9060-01	.4591-02	.3799-02	.4447-02	2.950	18.65	564.6
312	.0000	.2500	80.000	.2030-01	.7470-01	.8760-01	.4432-02	.3667-02	.4300-02	2.855	17.98	565.1
312	.0000	.3000	802.00	.8420-01	.6950-01	.8170-01	.4130-02	.3416-02	.4007-02	2.657	16.73	566.0
312	.0000	.3500	603.00	.8550-01	.7140-01	.8350-01	.4242-02	.3504-02	.4115-02	2.708	17.01	570.9
312	.0000	.4000	804.00	.8530-01	.7040-01	.8270-01	.4165-02	.3455-02	.4060-02	2.665	17.21	572.7
312	.0000	.4500	805.00	.7710-01	.6330-01	.7430-01	.3785-02	.3123-02	.3671-02	2.400	15.95	575.3
312	.0000	.5000	806.00	.7410-01	.6110-01	.7190-01	.3537-02	.2998-02	.3526-02	2.293	15.69	578.7
312	.0000	.5500	807.00	.7450-01	.6130-01	.7220-01	.3554-02	.3009-02	.3542-02	2.292	16.70	581.9
312	.0000	.6000	808.00	.7850-01	.6470-01	.7510-01	.3854-02	.3173-02	.3735-02	2.413	17.57	583.2
312	.0000	.6500	809.00	.9500-01	.7250-01	.9300-01	.4710-02	.3872-02	.4555-02	2.922	21.21	589.1
312	.0000	.7000	810.00	.1278	.1045	.1238	.6253-02	.5144-02	.6074-02	3.853	28.86	594.6
312	.0000	.7500	811.00	.1739	.1425	.1664	.8532-02	.6931-02	.8235-02	5.202	37.58	599.6
312	.0000	.8000	812.00	.2124	.1733	.2057	.1042-01	.8526-02	.1009-01	6.300	45.39	604.8
312	.0000	.8500	813.00	.2229	.1822	.2183	.1034-01	.8634-02	.1071-01	6.581	44.77	607.6
312	.0000	.9000	814.00	.2148	.1760	.2110	.1054-01	.8634-02	.1035-01	6.410	44.42	595.4
312	.0000	.9500	815.00	.1838	.1508	.1810	.9018-02	.7338-02	.8881-02	5.536	44.19	599.2
312	.0000	.9750	816.00	.1839	.1507	.1816	.9024-02	.7335-02	.8910-02	5.929	47.49	604.0
312	.0000	1.0150	817.00	.1935	.1634	.1976	.9795-02	.8016-02	.9697-02	5.079	29.81	576.3
312	.0000	1.0300	818.00	.1313	.1083	.1305	.6443-02	.5315-02	.6401-02	3.915	28.65	573.4
312	.0000	1.0500	819.00	.1255	.1036	.1246	.6156-02	.5082-02	.6115-02	3.421	28.27	578.3
312	.0000	1.0600	821.00	.1105	.9110-01	.1098	.5421-02	.4463-02	.5335-02	3.250	1.354	543.0
312	.0000	1.5000	83.000	.6900-02	.5700-02	.6900-02	.3374-03	.2808-03	.3374-03	.2250	4.991	543.8
312	.0000	2.0000	91.000	.2470-01	.2050-01	.2470-01	.1212-02	.1009-02	.1212-02	.8060	.7550	542.9
312	.0000	5.0000	90.000	.3800-02	.3200-02	.3800-02	.1830-03	.1535-03	.1830-03	.1250	20.63	580.5
312	.0000	4.0000	823.00	.8560-01	.7050-01	.8300-01	.4199-02	.3459-02	.4071-02	2.640	20.63	580.5
312	.0000	5.0000	824.00	.6020-01	.5140-01	.6660-01	.3935-02	.3238-02	.3815-02	2.455	19.13	585.6
312	.0000	6.0000	825.00	.6250-01	.5140-01	.7770-01	.3063-02	.2524-02	.2975-02	1.908	16.64	587.5
312	.0000	7.0000	826.00	.1020	.8370-01	.9590-01	.5006-02	.4108-02	.4551-02	3.077	22.28	594.8
312	.0000	8.0000	827.00	.1722	.1411	.1668	.8430-02	.6923-02	.8135-02	5.146	37.16	600.3
312	.0000	9.0000	828.00	.1793	.1469	.1760	.8735-02	.7207-02	.8639-02	5.351	41.48	599.9
312	.0000	9.2500	971.00	.1358	.1116	.1358	.6564-02	.5477-02	.6624-02	4.130	29.98	589.6
312	.0000	9.5000	975.00	.1607	.1481	.1807	.8564-02	.7668-02	.8564-02	5.425	39.23	597.3
312	.0000	9.7500	980.00	.1250	.1032	.1250	.6135-02	.5064-02	.6135-02	3.895	28.49	574.4
312	.0000	20.000	93.000	.1370-01	.1140-01	.1370-01	.6700-03	.5577-03	.6700-03	4.470	2.768	542.3
312	.0000	30.000	970.00	.1102	.9090-01	.1102	.5409-02	.4460-02	.5409-02	3.419	24.97	577.2
312	.0000	30.000	974.00	.1362	.1121	.1362	.6683-02	.5500-02	.6683-02	4.175	30.38	584.6
312	.0000	30.000	975.00	.4140-01	.3440-01	.4140-01	.2029-02	.1686-02	.2029-02	1.340	9.931	548.8
312	.0000	32.000	831.00	.1027	.8470-01	.9360-01	.5039-02	.4155-02	.4836-02	3.188	21.84	576.5
312	.0000	32.000	832.00	.9160-01	.7540-01	.8280-01	.4495-02	.3699-02	.4357-02	2.807	19.77	584.7
312	.0000	32.000	833.00	.8530-01	.7010-01	.8270-01	.4186-02	.3441-02	.4037-02	2.597	17.14	589.1
312	.0000	32.000	834.00	.9000-01	.7390-01	.8270-01	.4416-02	.3625-02	.4279-02	2.719	20.37	593.7
312	.0000	32.000	835.00	.1165	.9550-01	.1126	.5714-02	.4692-02	.5537-02	3.524	24.72	592.6

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) OFB:TER FUSELAGE

(RV1820)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(GTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWD, DEG. R /SEC	TW DEG. R
312	32.000	.90000	836.00	.1463	.1202	.1437	.7180-02	.5898-02	.7052-02	4.442	32.22	590.7
312	32.000	.95200	837.00	.1597	.1313	.1577	.7835-02	.6440-02	.7738-02	4.861	36.51	589.0
312	32.000	.97500	838.00	.1670	.1371	.1654	.8194-02	.6728-02	.8114-02	5.052	39.23	592.8
312	32.000	1.0150	839.00	.1271	.1047	.1213	.6235-02	.5135-02	.5953-02	3.912	31.10	592.0
312	32.000	1.0300	840.00	.1220	.1006	.1165	.5984-02	.4936-02	.5714-02	3.790	29.15	576.0
312	32.000	1.0450	841.00	.1263	.1042	.1206	.6196-02	.5111-02	.5917-02	3.921	29.64	576.5
312	32.000	1.0600	842.00	.9970-01	.8240-01	.9530-01	.4694-02	.4041-02	.4675-02	3.118	25.37	572.2
312	45.000	.95000	969.00	.2060-01	.1720-01	.2030-01	.1013-02	.8417-03	.1013-02	.6700	4.964	544.4
312	45.000	.95000	973.00	.1600-02	.1300-02	.1600-02	.7737-04	.6436-04	.7737-04	.5100-01	.3820	544.4
312	45.000	.97500	978.00	.2000-02	.1700-02	.2000-02	.1003-03	.8342-04	.1003-03	.6700-01	.4960	543.8
312	75.000	.97500	977.00	.1500-02	.1300-02	.1500-02	.7501-04	.6240-04	.7501-04	.5000-01	.3700	544.2
312	85.000	.97500	976.00	.2100-02	.1800-02	.2100-02	.1040-03	.8550-04	.1040-03	.6900-01	.5140	543.7
312	183.00	.10000-01	59.000	.1742	.1441	.1742	.8548-02	.7069-02	.8548-02	5.488	40.28	567.3
312	183.00	.25000-01	60.000	.4770-01	.3960-01	.4770-01	.2340-02	.1944-02	.2340-02	1.544	11.07	549.6
312	180.00	.50000-01	61.000	.1960-01	.1630-01	.1960-01	.9628-03	.8008-03	.9628-03	.6390	4.067	545.3
312	180.00	.75000-01	62.000	.1050-01	.8300-02	.1050-01	.5206-03	.4331-03	.5206-03	.3460	2.204	544.3
312	180.00	.10000+00	63.000	.9500-02	.7300-02	.9500-02	.4640-03	.3960-03	.4640-03	.3090	2.023	544.0
312	180.00	.12500	64.000	.1320-01	.1100-01	.1320-01	.6478-03	.5381-03	.6478-03	.4300	2.991	544.9
312	180.00	.15000	65.000	.2400-01	.2000-01	.2400-01	.1179-02	.9800-03	.1179-02	.7820	5.437	546.1
312	180.00	.16000	66.000	.7520-01	.6240-01	.7520-01	.3639-02	.3060-02	.3639-02	2.414	13.37	554.7
312	180.00	.17000	67.000	.9680-01	.8440-01	.9680-01	.4752-02	.3944-02	.4752-02	3.117	17.28	553.4
312	180.00	.20000	69.000	.1480-01	.1230-01	.1480-01	.7263-03	.6045-03	.7263-03	.4840	2.999	542.6
312	180.00	.40100	72.000	.1220-01	.1010-01	.1220-01	.5978-03	.4974-03	.5978-03	.3980	3.377	543.8
312	180.00	.50000	73.000	.1010-01	.8400-02	.1010-01	.4971-03	.4136-03	.4971-03	.3310	2.806	544.1
312	180.00	.50100	74.000	.7900-02	.5300-02	.7900-02	.3862-03	.3213-03	.3862-03	.2570	2.111	543.8
312	180.00	.70100	75.000	.6700-02	.5600-02	.6700-02	.3273-03	.2723-03	.3273-03	.2180	1.734	543.4

DATE 25 AUG '6

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

PAGE 373

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1821)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 5.000 SPDBRK = .0000  
BDFLAP = .0300 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	P-H MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC /FT3	RHO SLUGS
268	7.900	.5270	40.04	.0000	180.0	107.2	.1200-01	1268.	94.10	.5210	3754.	.1063-04
269	7.900	.5356	40.05	.0000	180.0	109.1	.1200-01	1269.	94.20	.5300	3755.	.1081-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
268	.7573-07	.1764-01		0.0175
269	.7560-07	.1780-01		.5531-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	T-ETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
268	.03000	.00000	1.0000	.6165	.5079	.5517	.1088-01	.8961-02	.9735-02	6.448	35.83	548.6
268	.03000	.50000-02	2.0000	.7159	.5894	.5894	.1265-01	.1040-01	.1040-01	7.413	51.32	555.3
268	.03000	.10000-01	3.0000	.6341	.5219	.5287	.1119-01	.9209-02	.9316-02	6.602	44.41	551.2
268	.03000	.30000-01	5.0000	.3398	.2807	.2964	.5996-02	.4954-02	.5230-02	3.613	20.18	538.8
268	.03000	.40000-01	6.0000	.2833	.2342	.2493	.4888-02	.4132-02	.4410-02	3.022	16.89	535.7
268	.03000	.50000-01	7.0000	.2766	.2283	.2453	.4880-02	.4028-02	.4338-02	2.925	19.77	541.9
268	.03000	.60000-01	8.0000	.2739	.2311	.2505	.4939-02	.4078-02	.4419-02	2.971	18.95	539.8
268	.03000	.70000-01	9.0000	.2434	.2059	.2246	.4400-02	.3632-02	.3963-02	2.641	18.41	541.2
268	.03000	.80000-01	10.000	.1938	.1650	.1809	.3525-02	.2911-02	.3191-02	2.118	14.78	540.4
268	.03000	.90000-01	11.000	.1975	.1632	.1795	.3465-02	.2880-02	.3167-02	2.102	13.41	538.4
268	.03000	1.0000-00	12.000	.1632	.1514	.1671	.3232-02	.2671-02	.2348-02	1.949	11.77	538.2
268	.03000	.13000	15.000	.1686	.1394	.1545	.2974-02	.2459-02	.2727-02	1.801	10.07	535.8
268	.03000	.14000	16.000	.1475	.1308	.1453	.2792-02	.2308-02	.2564-02	1.689	9.944	536.2
268	.03000	.16000	18.000	.1497	.1237	.1379	.2603-02	.2152-02	.2393-02	1.574	10.06	536.7
268	.03000	.17000	19.000	.1513	.1237	.1379	.2641-02	.2183-02	.2433-02	1.595	9.901	537.5
268	.03000	.18000	20.000	.1579	.1305	.1457	.2669-02	.2205-02	.2461-02	1.610	10.28	538.0
268	.03000	.19000	21.000	.1431	.1183	.1323	.2786-02	.2302-02	.2572-02	1.681	10.73	538.1
268	.03000	.20000	22.000	.1441	.1191	.1333	.2525-02	.2368-02	.2334-02	1.529	9.773	535.8
268	.03000	.20000	22.000	.1441	.1191	.1333	.2543-02	.2101-02	.2353-02	1.534	9.794	538.0

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(IGTO) BTU/ R FT2SEC	H(HTO) BTU/ R FT2SEC	H(HTAW) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
268	.0000	.22500	23.000	.1336	.1104	.1239	.2357-02	.1948-02	.2186-02	1.424	9.092	537.3
268	.0000	.25000	801.00	.1304	.1077	.1211	.2300-02	.1901-02	.2137-02	1.389	8.871	537.4
268	.0000	.30000	802.00	.1191	.9840-01	.1116	.2101-02	.1736-02	.1952-02	.267	8.092	538.1
269	.0000	.35000	803.00	.1237	.1022	.1149	.2184-02	.1803-02	.2028-02	1.313	8.310	540.2
268	.0000	.40000	804.00	.1195	.9870-01	.1110	.2109-02	.1741-02	.1959-02	1.265	8.310	540.9
268	.0000	.45000	805.00	.1086	.8950-01	.1018	.1916-02	.1581-02	.1779-02	1.147	7.746	542.8
268	.0000	.50000	806.00	.9300-01	.8110-01	.9150-01	.1734-02	.1430-02	.1610-02	1.036	7.217	543.5
268	.0000	.55000	807.00	.9310-01	.7670-01	.8610-01	.1642-02	.1354-02	.1524-02	.9790	7.268	544.9
268	.0000	.60000	808.00	.8450-01	.6370-01	.7850-01	.1491-02	.1230-02	.1385-02	.8900	6.604	544.9
268	.0000	.65000	809.00	.8270-01	.6820-01	.7650-01	.1459-02	.1203-02	.1354-02	.8690	6.444	546.0
268	.0000	.70000	810.00	.7910-01	.6520-01	.7340-01	.1395-02	.1150-02	.1295-02	.8330	6.370	546.2
268	.0000	.75000	811.00	.8120-01	.6200-01	.7500-01	.1434-02	.1182-02	.1331-02	.8540	6.340	545.4
268	.0000	.80000	812.00	.1011	.8340-01	.9350-01	.1784-02	.1472-02	.1657-02	1.064	7.900	544.9
268	.0000	.85000	813.00	.7750-01	.6430-01	.7250-01	.1370-02	.1130-02	.1285-02	.8180	6.282	544.4
268	.0000	.90000	814.00	.7220-01	.5550-01	.6800-01	.1275-02	.1052-02	.1193-02	.7840	5.494	542.1
268	.0000	.95000	815.00	.5940-01	.4910-01	.5610-01	.1049-02	.0844-03	.0963-03	.6300	5.210	540.4
268	.0000	.99000	816.00	.5790-01	.4730-01	.5400-01	.1022-02	.0844-03	.0967-03	.6150	5.086	539.7
268	.0000	.97500	817.00	.5550-01	.4910-01	.5640-01	.1050-02	.0869-03	.0995-03	.6310	5.219	540.0
268	.0000	1.0150	818.00	.3950-01	.3020-01	.3470-01	.6443-03	.5332-03	.6131-03	.3920	2.929	531.2
268	.0000	1.0300	819.00	.3650-01	.3030-01	.3400-01	.6466-03	.5353-03	.6154-03	.3950	2.949	531.2
268	.0000	1.0500	821.00	.3150-01	.2600-01	.2950-01	.5551-03	.4595-03	.5283-03	.3390	2.865	531.3
268	.0000	1.1000	89.000	.5800-02	.4800-02	.5900-02	.1027-03	.0818-04	.1027-03	.6300-01	.3940	526.6
268	.0000	1.1500	91.000	.7300-02	.5100-02	.7300-02	.1293-03	.1071-03	.1293-03	.7900-01	.4960	526.5
268	.0000	1.2000	90.000	.6200-02	.5300-02	.6200-02	.1099-03	.0905-04	.1093-03	.6700-01	.4100	526.9
268	.0000	1.2500	823.00	.1170	.9850-01	.1067	.2055-02	.1703-02	.1917-02	1.234	9.819	543.7
268	.0000	1.3000	824.00	.1088	.8370-01	.1010	.1920-02	.1593-02	.1782-02	1.142	9.080	546.3
268	.0000	1.3500	825.00	.7340-01	.6050-01	.6800-01	.1295-02	.1068-02	.1203-02	.7700	6.849	547.3
268	.0000	1.4000	826.00	.8310-01	.6850-01	.7710-01	.1466-02	.1208-02	.1361-02	.6700	6.452	547.7
269	.0000	1.4500	827.00	.8070-01	.6660-01	.7500-01	.1425-02	.1175-02	.1323-02	.8500	6.307	545.0
268	.0000	1.5000	828.00	.6600-01	.5440-01	.6200-01	.1164-02	.0905-03	.1095-02	.6990	5.556	541.9
269	.0000	1.5500	971.00	.1397	.1151	.1397	.2464-02	.2032-02	.2464-02	1.468	10.89	545.6
268	.0000	1.6000	975.00	.1551	.1534	.1861	.2384-02	.2705-02	.3284-02	1.551	14.46	547.3
268	.0000	1.6500	980.00	.1313	.1085	.1313	.2316-02	.1915-02	.2316-02	1.404	10.47	535.2
268	.0000	1.7000	93.000	.9000-02	.7500-02	.9000-02	.1594-03	.1321-03	.1594-03	.9800-01	.6120	526.2
268	.0000	1.7500	970.00	.9350-01	.7720-01	.9350-01	.1650-02	.1363-02	.1650-02	.9930	7.399	535.8
268	.0000	1.8000	974.00	.1175	.9700-01	.1175	.2072-02	.1712-02	.2072-02	1.248	9.290	538.2
268	.0000	1.8500	979.00	.4790-01	.3370-01	.4790-01	.8445-03	.7001-03	.8445-03	.5190	3.890	526.6
268	.0000	1.9000	1.6100*10	.1374	.1134	.1276	.2424-02	.2001-02	.2252-02	1.454	10.13	541.8
268	.0000	1.9500	831.00	.1157	.9930-01	.1074	.2041-02	.1682-02	.1894-02	1.215	8.725	545.9
268	.0000	2.0000	832.00	.1014	.9350-01	.9410-01	.1790-02	.1475-02	.1661-02	1.062	7.158	547.7
268	.0000	2.0500	833.00	.8930-01	.7350-01	.6300-01	.1575-02	.1295-02	.1452-02	.9380	7.200	545.8
268	.0000	2.1000	835.00	.7590-01	.6260-01	.7050-01	.1340-02	.1105-02	.1244-02	.8000	5.750	544.2
268	.0000	2.1500	836.00	.6850-01	.5660-01	.6450-01	.1210-02	.0986-03	.1138-02	.7250	5.403	540.8

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



(RV1821)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) CREITER FUSELAGE

DATE 25 AUG 76

PUR NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(10) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
263	32.000	.95000	837.00	.6470-01	.5340-01	.6120-01	.1141-02	.9429-03	.1080-02	.6870	5.294	539.1
263	32.000	.97500	838.00	.6680-01	.5590-01	.6530-01	.1244-02	.1004-02	.1152-02	.7350	5.868	535.3
263	32.000	1.0150	839.00	.4340-01	.3510-01	.3930-01	.7473-03	.6183-03	.6350-03	.4550	3.713	531.8
263	32.000	1.0300	840.00	.4720-01	.3910-01	.4330-01	.8333-03	.6933-03	.7633-03	.5080	3.998	531.2
268	32.000	1.0450	841.00	.4540-01	.3840-01	.4250-01	.8173-03	.6772-03	.7497-03	.5000	3.864	530.5
268	32.000	1.0600	842.00	.4760-01	.3940-01	.4370-01	.8403-03	.6959-03	.7704-03	.5140	4.268	530.1
268	45.000	.92500	959.00	.1040-01	.8630-02	.1040-01	.1827-03	.1514-03	.1827-03	.1120	.8390	528.0
268	45.000	.95000	973.00	.1200-02	.1000-02	.1200-02	.2173-04	.1764-04	.2123-04	.1300-01	.9900-01	527.8
263	45.000	.97500	978.00	.1300-02	.1100-02	.1300-02	.2333-04	.1931-04	.2323-04	.1400-01	1.070	526.9
268	75.000	.97500	977.00	.6000-03	.5030-03	.6000-03	.1019-04	.8449-05	.1019-04	.6000-02	.4700-01	527.2
268	65.000	.97500	976.00	.4000-03	.3000-03	.4000-03	.7353-05	.6100-05	.7353-05	.5000-02	.3400-01	527.0
268	180.00	1.0000-01	59.000	.1112	.9200-01	.1112	.1933-02	.1524-02	.1933-02	.1193	8.502	533.8
268	180.00	.20000-01	60.000	.2590-01	.2530-01	.2530-01	.5275-03	.4353-03	.5275-03	.3220	2.333	530.3
268	180.00	.50000-01	61.000	.1560-01	.1530-01	.1530-01	.2747-03	.2275-03	.2747-03	.1680	1.079	528.8
268	180.00	.75000-01	62.000	.1050-01	.8700-02	.1050-01	.1655-03	.1537-03	.1855-03	.1140	.7300	528.2
268	180.00	.10000+00	63.000	.1180-01	.9900-02	.1180-01	.2077-03	.1721-03	.2077-03	.1270	.8410	528.0
268	180.00	.12500	64.000	.1550-01	.1290-01	.1550-01	.2755-03	.2284-03	.2755-03	.1690	1.187	527.8
268	180.00	.15000	65.000	.2260-01	.1630-01	.2260-01	.3993-03	.3303-03	.3993-03	.2450	1.718	528.2
268	180.00	.16000	66.000	.5550-01	.4600-01	.5550-01	.9793-03	.8110-03	.9793-03	.5990	3.358	530.0
268	180.00	.17000	67.000	.7960-01	.6930-01	.7960-01	.1405-02	.1163-02	.1405-02	.8570	4.806	531.0
268	180.00	.20000	69.000	.1720-01	.1420-01	.1720-01	.3033-03	.2513-03	.3033-03	.1860	1.161	528.0
268	180.00	.40100	72.000	.5500-02	.2900-02	.5500-02	.6093-04	.5047-04	.6093-04	.3700-01	.3200	527.5
268	180.00	.50000	73.000	.2700-02	.2200-02	.2700-02	.4698-04	.3633-04	.4698-04	.2900-01	.2470	527.6
268	180.00	.60100	74.000	.3000-02	.2700-02	.3000-02	.5705-04	.4725-04	.5705-04	.3500-01	.2910	527.3
268	180.00	.70100	75.000	.3000-02	.2400-02	.3000-02	.5209-04	.4319-04	.5209-04	.3200-01	.2580	526.3

DATE 25 AUG 76 AEDC VKF V41B-57A (OH-498) COLLATION CHECK  
OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

FUSELAGE

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

REF	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
1	7.40	1.019	40.06	.0000	180.0	211.2	.2300-01	1272.	93.50	1.002	3761.	.2039-04
2	7.40	1.016	40.07	.0000	180.0	211.2	.2300-01	1275.	93.70	1.002	3765.	.2035-04

NUMB.	MU	LB-SEC /FT2	ST FR	R =
274	.7525-07	.2448-01	0.0175	.4028-01
275	.7541-07	.2450-01	.4033-01	

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
274	.00000	.00000	1.0000	.6090	.5012	.5447	.1492-01	.1228-01	.1334-01	8.821	48.90	553.4
274	.00000	.50000-02	2.0000	.7077	.5810	.5810	.1734-01	.1423-01	.1423-01	10.11	69.73	561.8
274	.00000	.10000-01	3.0000	.6272	.5156	.5216	.1536-01	.1263-01	.1278-01	9.030	60.56	557.0
274	.00000	.30000-01	5.0000	.3357	.2774	.2929	.8223-02	.6794-02	.7173-02	4.974	27.76	539.8
274	.00000	.40000-01	6.0000	.2776	.2295	.2450	.6800-02	.5623-02	.6001-02	4.129	23.08	537.5
274	.00000	.50000-01	7.0000	.2747	.2266	.2441	.6728-02	.5551-02	.5980-02	4.037	27.24	544.8
274	.00000	.60000-01	8.0000	.2810	.2320	.2514	.6882-02	.5683-02	.6158-02	4.149	26.44	541.8
274	.00000	.70000-01	9.0000	.2448	.2020	.2204	.5997-02	.4949-02	.5399-02	3.601	25.07	544.3
274	.00000	.80000-01	10.000	.1984	.1639	.1796	.4861-02	.4014-02	.4400-02	2.933	20.44	541.4
274	.00000	.90000-01	11.000	.1877	.1552	.1706	.4593-02	.3801-02	.4180-02	2.788	17.80	538.5
274	.00000	.10000+00	12.000	.1750	.1446	.1596	.4287-02	.3542-02	.3909-02	2.591	15.63	537.1
274	.00000	.12000	14.000	.1642	.1357	.1505	.4021-02	.3325-02	.3686-02	2.443	13.66	537.8
274	.00000	.13000	15.000	.1583	.1308	.1453	.3876-02	.3205-02	.3559-02	2.353	13.84	538.4
274	.00000	.14000	16.000	.1475	.1219	.1356	.3613-02	.2966-02	.3321-02	2.190	13.98	539.7
274	.00000	.16000	18.000	.1485	.1227	.1367	.3637-02	.3005-02	.3349-02	2.201	13.65	539.7
274	.00000	.17000	19.000	.1503	.1242	.1386	.3682-02	.3042-02	.3395-02	2.225	14.18	540.5
274	.00000	.18000	20.000	.1481	.1223	.1366	.3627-02	.2996-02	.3346-02	2.190	13.96	540.9
274	.00000	.19000	21.000	.1515	.1252	.1400	.3711-02	.3068-02	.3430-02	2.232	14.38	537.9
274	.00000	.20000	22.000	.1421	.1174	.1315	.3481-02	.2875-02	.3220-02	2.103	13.41	540.5

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1B21)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) FT2SEC	H(1TO) BTU/ R FT2SEC	H(14M) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
274	.00000	.22500	23.000	.1329	.1099	.1233	.3256-02	.2691-02	.3020-02	1.971	12.57	539.5
274	.00000	.25000	801.00	.1302	.1076	.1209	.3188-02	.2634-02	.2962-02	1.929	12.31	539.6
274	.00000	.30000	802.00	.1226	.1013	.1139	.3004-02	.2481-02	.2790-02	1.815	11.57	540.5
274	.00000	.35000	803.00	.1197	.9880-01	.1111	.2931-02	.2419-02	.2722-02	1.762	11.22	543.6
274	.00000	.40000	804.00	.1202	.9920-01	.1116	.2943-02	.2429-02	.2733-02	1.768	11.58	544.0
274	.00000	.45000	805.00	.1095	.9030-01	.1017	.2682-02	.2213-02	.2490-02	1.608	10.85	545.2
274	.00000	.50000	806.00	.9680-01	.7990-01	.8990-01	.2372-02	.1955-02	.2202-02	1.420	9.677	546.0
274	.00000	.55000	807.00	.9190-01	.7530-01	.8530-01	.2252-02	.1855-02	.2090-02	1.344	9.957	548.0
274	.00000	.60000	808.00	.8560-01	.7050-01	.7940-01	.2086-02	.1728-02	.1945-02	1.250	9.266	548.2
274	.00000	.65000	809.00	.8090-01	.6670-01	.7510-01	.1983-02	.1633-02	.1840-02	1.179	8.728	550.1
274	.00000	.70000	810.00	.7670-01	.6480-01	.7300-01	.1928-02	.1588-02	.1789-02	1.145	8.770	550.6
274	.00000	.75000	811.00	.8170-01	.6730-01	.7580-01	.2002-02	.1649-02	.1858-02	1.190	8.805	550.6
274	.00000	.80000	812.00	.8540-01	.7030-01	.7920-01	.2091-02	.1723-02	.1940-02	1.243	9.197	550.6
274	.00000	.85000	813.00	.8080-01	.6660-01	.7580-01	.1979-02	.1630-02	.1856-02	1.177	9.016	549.9
274	.00000	.90000	814.00	.7530-01	.6210-01	.7080-01	.1845-02	.1521-02	.1735-02	1.100	7.887	548.6
274	.00000	.92500	815.00	.6200-01	.5110-01	.5660-01	.1517-02	.1251-02	.1431-02	.9070	7.473	547.0
274	.00000	.95000	816.00	.5993-01	.4940-01	.5660-01	.1468-02	.1210-02	.1387-02	.8770	7.220	547.6
274	.00000	.97500	817.00	.6150-01	.5070-01	.5830-01	.1507-02	.1242-02	.1428-02	.8390	7.398	548.6
274	.00000	1.0150	818.00	.4310-01	.3560-01	.4100-01	.1055-02	.8716-03	.1003-02	.6380	4.746	540.1
274	.00000	1.0300	819.00	.4230-01	.3500-01	.4020-01	.1036-02	.8565-03	.9857-03	.6280	4.678	538.5
274	.00000	1.0600	821.00	.2590-01	.2140-01	.2470-01	.6349-03	.5248-03	.6040-03	.3950	3.244	538.6
274	.00000	1.1500	89.000	.6500-02	.5600-02	.6500-02	.2093-03	.1736-03	.1664-03	.1030	.6240	527.4
274	.00000	50.600	90.600	.3900-02	.3200-02	.3900-02	.9585-04	.7948-04	.9585-04	.5900-01	.8080	526.5
274	.00000	823.00	823.00	.1170	.9640-01	.1086	.2866-02	.2362-02	.2660-02	1.709	13.57	548.3
274	.00000	824.00	824.00	.1062	.8750-01	.9850-01	.2601-02	.2143-02	.2414-02	1.545	12.25	550.7
274	.00000	825.00	825.00	.7220-01	.5940-01	.6700-01	.1768-02	.1456-02	.1640-02	1.050	8.320	551.0
274	.00000	826.00	826.00	.8670-01	.7130-01	.8040-01	.2123-02	.1747-02	.1969-02	1.256	9.298	552.8
274	.00000	827.00	827.00	.8170-01	.6730-01	.7580-01	.2002-02	.1649-02	.1858-02	1.190	8.806	550.5
274	.00000	828.00	828.00	.6540-01	.5390-01	.6150-01	.1602-02	.1320-02	.1506-02	.9550	7.580	548.6
274	.00000	971.00	971.00	.1846	.1519	.1646	.4523-02	.3721-02	.4523-02	2.658	19.70	554.2
274	.00000	975.00	975.00	.2255	.1853	.2255	.5523-02	.4540-02	.5523-02	2.244	23.93	557.3
274	.00000	980.00	980.00	.1555	.1283	.1555	.3810-02	.3143-02	.3810-02	2.285	16.96	544.9
274	.00000	983.00	983.00	.1410	.1163	.1410	.2547-03	.2112-03	.2547-03	1.570	9.830	547.7
274	.00000	974.00	974.00	.1612	.1329	.1612	.3949-02	.3255-02	.3949-02	2.355	17.45	548.4
274	.00000	979.00	979.00	.4010-01	.3320-01	.4010-01	.9818-03	.8131-03	.9818-03	.6020	4.498	531.7
274	.00000	83100+10	83100+10	.1378	.1137	.1280	.3376-02	.2785-02	.3134-02	2.023	14.08	545.4
274	.00000	832.00	832.00	.1172	.9650-01	.1087	.2870-02	.2364-02	.2663-02	1.706	12.22	550.3
274	.00000	833.00	833.00	.9330-01	.8170-01	.9210-01	.2432-02	.2002-02	.2256-02	1.442	9.695	551.9
274	.00000	834.00	834.00	.7820-01	.6430-01	.7250-01	.1915-02	.1575-02	.1776-02	1.130	8.639	554.4
274	.00000	835.00	835.00	.7440-01	.6130-01	.6900-01	.1822-02	.1500-02	.1690-02	1.082	7.748	550.8
274	.00000	836.00	836.00	.6860-01	.5660-01	.6450-01	.1681-02	.1357-02	.1580-02	1.003	7.436	547.8

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAH) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
274	32.000	.95000	837.00	.6810-01	.5610-01	.6430-01	.1667-02	.1374-02	.1576-02	.9950	7.633	547.7
274	32.000	.97500	838.00	.6930-01	.5710-01	.6570-01	.1698-02	.1399-02	.1609-02	.9950	8.041	548.2
274	32.000	1.0150	839.00	.4430-01	.3660-01	.4050-01	.1084-02	.0955-03	.0927-03	.6540	5.306	541.5
274	32.000	1.0300	840.00	.5010-01	.4140-01	.4590-01	.1228-02	.1014-02	.1124-02	.7420	5.808	540.6
274	32.000	1.0450	841.00	.4950-01	.4090-01	.4530-01	.1212-02	.1001-02	.109-02	.7310	5.627	541.2
274	32.000	1.0600	842.00	.5010-01	.4140-01	.4590-01	.1227-02	.1014-02	.1123-02	.7420	6.139	539.6
274	45.000	.92500	959.00	.1870-01	.1550-01	.1870-01	.4576-03	.3793-03	.4576-03	.2820	2.109	528.8
274	45.000	.95000	973.00	.1100-02	.9000-03	.1100-02	.2749-04	.2279-04	.2749-04	.1700-01	.1270	526.9
274	45.000	.97500	978.00	.7000-03	.6000-03	.7000-03	.1705-04	.1414-04	.1705-04	.1100-01	.7900-01	526.5
274	85.000	.97500	976.00	.5030-03	.4000-03	.5000-03	.1139-04	.9446-05	.1139-04	.7000-02	.5300-01	526.3
274	180.00	.10000-01	59.000	.1073	.8880-01	.1073	.2629-02	.2176-02	.2629-02	.1608	12.01	533.1
274	180.00	.25000-01	60.000	.2830-01	.2360-01	.2880-01	.7043-03	.5638-03	.7043-03	.4340	3.141	528.9
274	180.00	.50000-01	61.000	.1340-01	.1110-01	.1340-01	.3279-03	.2719-03	.3279-03	.2020	1.298	528.1
274	180.00	.75000-01	62.000	.1050-01	.8800-02	.1060-01	.2598-03	.2146-03	.2598-03	.1600	1.024	528.2
274	180.00	.10000+00	63.000	.1550-01	.1310-01	.1580-01	.3866-03	.3204-03	.3866-03	.2380	1.572	528.9
274	180.00	.12500	64.000	.2250-01	.1870-01	.2250-01	.5520-03	.4575-03	.5520-03	.3400	2.384	528.5
274	180.00	.15000	65.000	.3250-01	.2690-01	.3250-01	.7959-03	.6596-03	.7959-03	.4900	3.434	528.5
274	180.00	.16000	66.000	.7870-01	.6520-01	.7870-01	.1929-02	.1586-02	.1929-02	.1179	6.601	533.4
274	180.00	.17000	67.000	.9740-01	.8060-01	.9740-01	.2385-02	.1974-02	.2385-02	1.458	8.162	533.6
274	180.00	.20000	69.000	.1800-01	.1500-01	.1800-01	.4420-03	.3664-03	.4420-03	.2730	1.700	528.2
274	180.00	.40100	72.000	.3500-02	.2900-02	.3500-02	.2553-04	.2094-04	.2553-04	.5300-01	.4530	526.6
274	180.00	.50000	73.000	.4500-02	.3800-02	.4500-02	.1116-03	.9257-04	.1116-03	.6900-01	.5910	526.9
274	180.00	.60100	74.000	.4200-02	.3500-02	.4200-02	.1039-03	.8618-04	.1039-03	.6400-01	.5330	526.5
274	180.00	.70100	75.000	.4200-02	.3500-02	.4200-02	.1028-03	.8527-04	.1028-03	.6400-01	.5120	525.5

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAG

(RV1B21)

## FUSELAG

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO FSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
292	7.940	2.042	40.07	.0000	180.0	430.7	.4600-01	1287.	94.60	2.044	3784.	.4109-04
293	7.940	2.031	40.07	.0000	180.0	430.5	.4600-01	1292.	94.90	2.044	3790.	.4109-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR R =
292	.7616-07	.3506-01	0.0175
293	.7641-07	.3507-01	.2841-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEV. R /SEC	TW DEG. R
292	.00000	.00000	1.0000	.5948	.4875	.5307	.2085-01	.1709-01	.1861-01	12.20	66.96	573.4
292	.00000	.50000-02	2.0000	.6926	.5651	.5651	.2428-01	.1981-01	.1981-01	13.85	94.31	588.2
292	.00000	.10000-01	3.0000	.6252	.5112	.5173	.2192-01	.1792-01	.1813-01	12.65	83.84	581.3
292	.00000	.20000-01	4.0000	.4356	.3594	.3737	.1531-01	.1260-01	.1310-01	9.168	50.67	559.6
292	.00000	.30000-01	5.0000	.3334	.2748	.2903	.1169-01	.9633-02	.1018-01	7.057	39.09	554.8
292	.00000	.40000-01	6.0000	.2848	.2350	.2510	.9589-02	.8238-02	.8788-02	6.063	33.65	551.3
292	.00000	.50000-01	7.0000	.2691	.2214	.2367	.9435-02	.7762-02	.8370-02	5.636	37.72	561.2
292	.00000	.60000-01	8.0000	.2611	.2315	.2511	.9563-02	.7000-02	.6802-02	5.924	37.46	557.3
292	.00000	.70000-01	9.0000	.2426	.1997	.2181	.8506-02	.7000-02	.7645-02	5.088	35.13	560.4
292	.00000	.80000-01	10.000	.1966	.1637	.1796	.6932-02	.5737-02	.6295-02	4.197	29.05	555.8
292	.00000	.90000-01	11.000	.1900	.1568	.1725	.6662-02	.5496-02	.6049-02	4.042	25.63	551.9
292	.00000	.10000+00	12.000	.1745	.1439	.1590	.6116-02	.5045-02	.5573-02	3.710	22.25	552.0
292	.00000	.12000	14.000	.1627	.1343	.1490	.5703-02	.4710-02	.5225-02	3.482	19.35	548.0
292	.00000	.13000	15.000	.1532	.1265	.1406	.5371-02	.4434-02	.4928-02	3.274	19.15	549.0
292	.00000	.14000	16.000	.1443	.1192	.1326	.5060-02	.4177-02	.4648-02	3.082	19.56	549.6
292	.00000	.16000	18.000	.1525	.1258	.1404	.5345-02	.4411-02	.4920-02	3.245	20.01	551.6
292	.00000	.17000	19.000	.1480	.1221	.1363	.5189-02	.4279-02	.4779-02	3.144	19.92	552.6
292	.00000	.18000	20.000	.1470	.1212	.1355	.5153-02	.4250-02	.4751-02	3.120	19.77	553.1
292	.00000	.19000	21.000	.1460	.1205	.1348	.5118-02	.4225-02	.4727-02	3.116	19.78	549.7

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1821)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(19T0) BTU/ R FT2SEC	H(1T0) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
292	.00000	.20000	22.000	.1417	.1169	.1310	.4569-02	.4098-02	.4593-02	3.011	19.09	552.6
292	.00000	.22500	23.000	.1305	.1077	.1209	.4574-02	.3774-02	.4240-02	2.778	17.62	551.2
292	.00000	.25000	801.00	.1282	.1058	.1190	.4494-02	.3708-02	.4172-02	2.728	17.30	551.7
292	.00000	.30000	802.00	.1198	.9880-01	.1112	.4193-02	.3464-02	.3898-02	2.545	16.13	552.6
292	.00000	.35000	803.00	.1273	.1048	.1181	.4461-02	.3675-02	.4139-02	2.685	16.98	556.9
292	.00000	.40000	804.00	.1216	.1002	.1128	.4263-02	.3511-02	.3955-02	2.562	15.68	557.5
292	.00000	.45000	805.00	.1080	.8880-01	.1001	.3785-02	.3114-02	.3511-02	2.261	15.13	561.2
292	.00000	.50000	806.00	.9780-01	.8050-01	.9070-01	.3429-02	.2820-02	.3180-02	2.045	14.11	562.1
292	.00000	.55000	807.00	.9290-01	.7630-01	.8610-01	.757-02	.2676-02	.3019-02	1.932	14.19	565.5
292	.00000	.60000	808.00	.8800-01	.7230-01	.8160-01	.3066-02	.2535-02	.2860-02	1.829	13.43	565.9
292	.00000	.65000	809.00	.8400-01	.6890-01	.7780-01	.2943-02	.2415-02	.2727-02	1.734	12.72	569.3
292	.00000	.70000	810.00	.9070-01	.7440-01	.8400-01	.3180-02	.2609-02	.2946-02	1.869	14.17	570.9
292	.00000	.75000	811.00	.1046	.8580-01	.9690-01	.3667-02	.3008-02	.3397-02	2.152	15.76	571.8
292	.00000	.80000	812.00	.1269	.1057	.1194	.4517-02	.3705-02	.4184-02	2.655	19.45	570.9
292	.00000	.85000	813.00	.1382	.1133	.1294	.4845-02	.3973-02	.4537-02	2.843	21.54	571.8
292	.00000	.90000	814.00	.1469	.1206	.1379	.5150-02	.4227-02	.4835-02	3.036	21.54	569.1
292	.00000	.92500	815.00	.1321	.1085	.1244	.4631-02	.3804-02	.4360-02	2.740	22.35	566.9
292	.00000	.95000	816.00	.1445	.1186	.1364	.5066-02	.4156-02	.4781-02	2.980	24.27	570.7
292	.00000	.97500	817.00	.1582	.1296	.1497	.5546-02	.4545-02	.5246-02	3.239	26.32	574.6
292	.00000	1.0150	818.00	.1212	.9970-01	.1151	.4247-02	.3497-02	.4036-02	2.547	18.78	558.8
292	.00000	1.0300	819.00	.1139	.9330-01	.1082	.3993-02	.3289-02	.3794-02	2.405	17.75	556.3
292	.00000	1.0600	821.00	.1033	.8550-01	.9870-01	.3541-02	.2956-02	.3459-02	2.177	18.14	560.8
292	.00000	.15000	89.000	.5000-02	.4100-02	.5000-02	.1743-03	.1446-03	.1743-03	.1090	.6610	532.8
292	.00000	.20000	91.600	.8200-02	.6800-02	.8200-02	.2891-03	.2400-03	.2891-03	.2250	1.133	530.0
292	.00000	.50000-01	90.000	.1030-01	.8500-02	.1030-01	.3597-03	.2994-03	.3597-03	.2250	1.366	531.8
292	.00000	.40000	823.00	.1131	.9300-01	.1049	.3965-02	.3259-02	.3676-02	2.356	18.55	564.5
292	.00000	.50000	824.00	.1049	.8620-01	.9720-01	.3679-02	.3020-02	.3409-02	2.172	17.08	568.0
292	.00000	.60000	825.00	.6690-01	.5660-01	.6380-01	.2416-02	.1933-02	.2238-02	1.422	12.51	570.0
292	.00000	.70000	826.00	.9340-01	.7650-01	.8650-01	.3273-02	.2683-02	.3031-02	1.918	14.04	572.5
292	.00000	.80000	827.00	.1202	.9860-01	.1114	.4215-02	.3458-02	.3904-02	2.478	18.16	570.7
292	.00000	.90000	828.00	.1304	.1070	.1224	.4571-02	.3752-02	.4291-02	2.695	21.18	569.0
292	.00000	.92500	971.00	.1854	.1520	.1854	.6499-02	.5327-02	.6499-02	3.802	27.82	573.6
292	.00000	.95000	975.00	.2210	.1839	.2210	.7748-02	.6343-02	.7748-02	4.504	32.89	577.3
292	.00000	.97500	990.00	.1567	.1290	.1567	.5493-02	.4523-02	.5493-02	3.297	24.31	558.3
292	.00000	.20000	93.000	.1080-01	.9000-02	.1080-01	.3782-03	.3139-03	.3782-03	.2380	1.480	530.4
292	.00000	.92500	970.00	.1516	.1247	.1516	.5316-02	.4371-02	.5316-02	3.167	23.30	562.8
292	.00000	.95000	974.00	.1744	.1433	.1744	.6115-02	.5024-02	.6115-02	3.624	26.62	565.9
292	.00000	.97500	979.00	.4710-01	.3900-01	.4710-01	.1652-02	.1369-02	.1652-02	1.028	7.659	536.7
292	.00000	.83100+10	831.00	.1331	.1095	.1234	.4665-02	.3839-02	.4327-02	2.792	19.28	560.1
292	.00000	.50000	832.00	.1133	.9300-01	.1050	.3971-02	.3260-02	.3680-02	2.343	16.63	568.7
292	.00000	.60000	833.00	.1008	.8260-01	.9330-01	.3532-02	.2897-02	.3271-02	2.074	13.81	571.5
292	.00000	.70000	834.00	.8650-01	.7090-01	.8010-01	.3032-02	.2485-02	.2807-02	1.773	13.42	573.9
292	.00000	.80000	835.00	.1048	.8650-01	.9710-01	.3675-02	.3014-02	.3404-02	2.157	15.28	571.8

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AEDC VKF V418-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V418-57A) ORBITER FUSELAGE

(RV1821)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AM) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
292	32.000	.90000	836.00	.1278	.1049	.1200	.4480-02	.3679-02	.4207-02	2.648	19.43	567.7
292	32.000	.95000	837.00	.1447	.1188	.1366	.5073-02	.4165-02	.4789-02	2.998	22.76	567.7
292	32.000	.97500	838.00	.1607	.1318	.1520	.5633-02	.4620-02	.5330-02	3.309	25.97	571.2
292	32.000	1.0150	839.00	.1183	.9720-01	.1081	.4147-02	.3409-02	.3788-02	2.466	19.78	563.9
292	32.000	1.0300	840.00	.1243	.1022	.1135	.4355-02	.3584-02	.3980-02	2.604	20.18	560.8
292	32.000	1.0450	841.00	.1284	.1056	.1173	.4500-02	.3703-02	.4112-02	2.691	20.50	560.5
292	32.000	1.0600	842.00	.1936	.8530-01	.9470-01	.3631-02	.2991-02	.3320-02	2.185	17.91	556.9
292	45.000	.92500	969.00	.2610-01	.2160-01	.2610-01	.9154-03	.7586-03	.9154-03	.5700	4.255	535.4
292	45.000	.95000	973.00	.1450-02	.1200-02	.1400-02	.4915-04	.4079-04	.4915-04	.3100-01	.2310	530.4
292	45.000	.97500	978.00	.1000-02	.8000-03	.1000-02	.2835-04	.2835-04	.3416-04	.2700-01	.1610	529.8
292	65.000	.97500	976.00	.2000-03	.2000-03	.2000-03	.7261-05	.6028-05	.7261-05	5000-02	.3400-01	529.4
292	180.00	.10000-01	59.000	.1027	.8500-01	.1027	.3601-02	.2979-02	.3601-02	2.222	16.52	541.4
292	180.00	.25000-01	60.000	.2670-01	.2210-01	.2670-01	.9354-03	.7752-03	.9354-03	.5930	4.204	535.9
292	180.00	.50000-01	61.000	.1300-01	.1070-01	.1300-01	.4545-03	.3767-03	.4545-03	.2830	1.813	534.9
292	180.00	.75000-01	62.000	.1200-01	.1000-01	.1200-01	.4219-03	.3498-03	.4219-03	.2630	1.684	534.6
292	180.00	.10000+00	63.000	.2550-01	.1700-01	.2050-01	.7184-03	.5954-03	.7184-03	.4480	2.949	534.9
292	180.00	.12500	64.000	.2650-01	.2190-01	.2650-01	.9274-03	.7697-03	.9274-03	.5780	4.046	534.9
292	180.00	.15000	65.000	.3620-01	.3000-01	.3620-01	.1269-02	.1052-02	.1269-02	.7920	5.537	534.9
292	180.00	.16000	66.000	.9270-01	.7670-01	.9270-01	.3249-02	.2689-02	.3249-02	2.010	11.22	540.0
292	180.00	.17000	67.000	.1121	.9270-01	.1121	.3929-02	.3251-02	.3929-02	2.426	13.53	541.1
292	180.00	.20000	69.000	.1910-01	.1580-01	.1910-01	.5678-03	.5541-03	.6678-03	.4190	2.668	531.5
292	180.00	.40100	72.000	.4800-02	.4000-02	.4800-02	.1676-03	.1391-03	.1676-03	.1050	.9010	530.1
292	180.00	.50000	73.000	.5100-02	.4300-02	.5100-02	.1609-03	.1497-03	.1803-03	.1130	.9690	530.4
292	180.00	.60100	74.000	.5500-02	.4600-02	.5500-02	.1939-03	.1609-03	.1939-03	.1220	1.009	530.0
292	180.00	.70100	75.000	.4500-02	.3700-02	.4500-02	.1578-03	.1310-03	.1578-03	.9900-01	.7970	529.0

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1821)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 5.000 SPDRK = .0000  
BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q FSIA	V FT/SEC	RHO SLUGS /FT3
320	7.990	2.943	40.11	.0000	180.0	676.4	.7000-01	1348.	97.90	3.121	3873.	.5987-04
321	7.990	2.970	40.14	.0000	180.0	676.1	.7000-01	1339.	97.30	3.120	3861.	.6023-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR B = C.0175
320	.7881-07	.4366-01	.2364-01
321	.7830-07	.4360-01	.2356-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
320	.00000	.00000	1.0000	.5933	.4885	.5309	.2591-01	.2133-01	.2318-01	16.26	88.74	585.1
320	.00000	.50000-02	2.0000	.6979	.5716	.5716	.3047-01	.2496-01	.2496-01	18.59	125.7	602.9
320	.00000	.10000-01	3.0000	.6185	.5078	.5137	.2701-01	.2217-01	.2217-01	15.70	109.9	594.6
320	.00000	.20000-01	4.0000	.4320	.3573	.3712	.1885-01	.1550-01	.1621-01	12.16	66.93	569.0
320	.00000	.30000-01	5.0000	.3372	.2794	.2947	.1472-01	.1220-01	.1220-01	9.590	52.95	561.6
320	.00000	.40000-01	6.0000	.3035	.2518	.2624	.1326-01	.1099-01	.1172-01	8.634	48.03	557.8
320	.00000	.50000-01	7.0000	.2709	.2239	.2410	.1183-01	.9776-02	.1052-01	7.594	50.52	570.9
320	.00000	.60000-01	8.0000	.2792	.2303	.2492	.1215-01	.1005-01	.1089-01	7.659	49.48	565.9
320	.00000	.70000-01	9.0000	.2442	.2019	.2200	.1066-01	.8314-02	.9607-02	6.848	47.04	570.7
320	.00000	.80000-01	10.000	.1939	.1605	.1757	.8466-02	.7008-02	.7672-02	5.485	37.79	565.0
320	.00000	.90000-01	11.000	.1910	.1563	.1738	.8338-02	.6912-02	.7559-02	5.446	34.39	559.7
320	.00000	.10000+00	12.000	.1725	.1463	.1611	.7704-02	.6366-02	.7036-02	5.028	30.03	560.2
320	.00000	.12000	14.000	.1591	.1321	.1451	.6948-02	.5767-02	.6390-02	4.570	25.31	555.2
320	.00000	.13000	15.000	.1529	.1268	.1406	.6674-02	.5537-02	.6137-02	4.379	25.51	556.8
320	.00000	.14000	16.000	.1445	.1198	.1330	.6308-02	.5232-02	.5805-02	4.131	26.11	558.1
320	.00000	.15000	18.000	.1514	.1255	.1336	.6611-02	.5478-02	.6095-02	4.309	26.43	561.1
320	.00000	.16000	19.000	.1493	.1234	.1375	.6506-02	.5369-02	.6004-02	4.228	26.66	563.0
320	.00000	.18000	20.000	.1517	.1255	.1401	.6623-02	.5484-02	.6116-02	4.298	27.08	564.0
320	.00000	.19000	21.000	.1440	.1193	.1332	.6286-02	.5210-02	.5815-02	4.099	25.87	560.8



(RV1821)

## AEDC VKF V41B-57A (OH-49B) COLLATION DECK

## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT/SEC	H(10) BTU/ R FT/SEC	H(11A) BTU/ R FT/SEC	ODOT BTU/ R FT/SEC	DTWDT DEG. R /SEC	TH DEG. R
320	.00000	.20000	22.000	.1425	.1180	.1319	.6220-02	.5151-02	.5759-02	4.037	25.44	563.9
320	.00000	.22500	23.000	.1315	.1089	.1221	.5742-02	.4756-02	.5330-02	3.734	23.55	562.6
320	.00000	.25000	801.00	.1276	.1057	.1187	.5573-02	.4615-02	.5181-02	3.617	22.80	563.8
320	.00000	.30000	802.00	.1222	.1012	.1136	.5337-02	.4417-02	.4951-02	3.454	21.75	565.7
320	.00000	.35000	803.00	.1253	.1035	.1164	.5471-02	.4520-02	.5081-02	3.505	22.00	572.2
320	.00000	.40000	804.00	.1212	.1001	.1125	.5291-02	.4369-02	.4913-02	3.379	21.81	574.2
320	.00000	.45000	805.00	.1039	.9050-01	.1020	.4737-02	.3938-02	.4453-02	3.049	20.24	577.2
320	.00000	.50000	806.00	.1000+00	.8250-01	.9280-01	.4369-02	.3601-02	.4054-02	2.765	18.91	579.9
320	.00000	.55000	807.00	.9980-01	.8210-01	.9250-01	.4357-02	.3585-02	.4040-02	2.734	19.88	585.4
320	.00000	.60000	808.00	.1072	.8820-01	.9340-01	.4630-02	.3850-02	.4339-02	2.928	21.28	587.3
320	.00000	.65000	809.00	.1593	.1306	.1475	.6954-02	.5704-02	.6440-02	4.275	30.90	598.1
320	.00000	.70000	810.00	.2525	.2083	.2335	.1103-01	.9010-02	.1020-01	6.638	49.33	610.9
320	.00000	.75000	811.00	.3200	.2610	.2956	.1397-01	.1140-01	.1291-01	8.334	59.71	616.3
320	.00000	.80000	812.00	.3321	.2755	.3132	.1406-01	.1147-01	.1369-01	8.816	63.12	617.5
320	.00000	.85000	813.00	.3034	.2626	.3009	.1430-01	.1082-01	.1241-01	7.967	55.37	611.5
320	.00000	.90000	814.00	.2619	.2144	.2463	.1171-01	.9360-02	.1075-01	6.948	55.61	605.3
320	.00000	.95000	815.00	.2683	.2192	.2528	.1246-01	.6780-02	.1104-01	7.049	56.25	611.2
320	.00000	.97500	817.00	.2853	.2326	.2694	.8230-02	.1016-01	.1176-01	7.418	59.03	617.3
320	.00000	1.0150	818.00	.1685	.1553	.1791	.7790-02	.6422-02	.7403-02	5.184	37.75	583.0
320	.00000	1.0300	819.00	.1784	.1471	.1696	.7198-02	.5923-02	.6837-02	4.931	35.97	579.9
320	.00000	1.0600	821.00	.1649	.1357	.1566	.2460-03	.2051-03	.2460-03	4.506	37.08	586.9
320	.00000	1.15000	822.00	.5600-02	.4700-02	.5600-02	.3579-03	.2985-03	.3579-03	1.660	1.005	537.0
320	.00000	1.20000	823.00	.8200-02	.6800-02	.8200-02	.3987-03	.3324-03	.3987-03	1.504	1.504	536.5
320	.00000	1.30000-01	90.000	.9100-02	.7500-02	.9100-02	.4927-02	.4059-02	.4927-02	1.625	1.625	538.0
320	.00000	.40000	824.00	.1128	.9300-01	.1047	.4567-02	.3755-02	.4567-02	2.848	24.23	582.7
320	.00000	.50000	825.00	.1046	.8600-01	.9700-01	.3451-02	.2836-02	.3198-02	2.143	22.15	589.3
320	.00000	.60000	826.00	.7900-01	.6500-01	.7330-01	.1364-01	.1113-01	.1261-01	1.139	18.64	592.0
320	.00000	.70000	827.00	.3125	.2549	.2837	.1452-01	.1185-01	.1342-01	8.680	58.31	616.3
320	.00000	.80000	828.00	.3226	.2714	.3074	.1158-01	.9464-02	.1085-01	6.976	62.22	615.2
320	.00000	.90000	829.00	.2553	.2169	.2486	.8113-02	.6654-02	.8113-02	5.029	53.70	610.5
320	.00000	.95000	971.00	.1953	.1526	.1858	.1051-01	.8614-02	.1051-01	6.435	36.45	592.9
320	.00000	.97500	975.00	.2407	.1973	.2407	.7084-02	.5848-02	.7084-02	4.520	46.46	600.6
320	.00000	.97500	980.00	.1622	.1339	.1622	.5523-03	.4569-03	.5623-03	3.305	33.05	574.9
320	.00000	.97500	983.00	.1290-01	.1070-01	.1290-01	.6402-02	.5280-02	.6402-02	3.800	29.361	536.8
320	.00000	.97500	970.00	.1466	.1209	.1466	.7546-02	.6212-02	.7546-02	4.060	29.63	578.8
320	.00000	.97500	974.00	.1728	.1423	.1728	.2501-02	.2081-02	.2501-02	4.736	34.45	585.3
320	.00000	.97500	979.00	.5730-01	.4770-01	.5730-01	.5916-02	.4883-02	.5493-02	1.670	12.40	545.2
320	.00000	.97500	831.00+10	.1355	.1118	.1258	.4742-02	.3902-02	.4397-02	2.970	25.84	575.5
320	.00000	.97500	832.00	.1086	.8340-01	.1086	.4829-02	.3967-02	.4475-02	2.994	20.89	586.5
320	.00000	.97500	833.00	.1106	.9090-01	.1025	.5816-02	.4767-02	.5365-02	2.562	26.61	592.8
320	.00000	.97500	834.00	.1332	.1092	.1233	.1045-01	.8557-02	.9673-02	6.356	44.31	600.4
320	.00000	.97500	835.00	.2334	.1960	.2215						605.0

(RV1B21)

DATE 25 AUG 76 AEDC VKF V41B-57A (OH-49B) COLLATION DECK OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
320	32.000	.90000	835.00	.2751	.2251	.2579	.1201-01	.9827-02	.1126-01	7.283	52.43	606.5
320	32.000	.95000	837.00	.2791	.2285	.2631	.1218-01	.9978-02	.1149-01	7.426	55.39	603.4
320	32.000	.97500	838.00	.2857	.2335	.2700	.1247-01	.1019-01	.1179-01	7.519	57.89	610.1
320	32.000	1.0150	839.00	.2125	.1744	.1939	.9280-02	.7614-02	.8466-02	5.717	45.11	596.9
320	32.000	1.0300	840.00	.1966	.1569	.1742	.8322-02	.6850-02	.7605-02	5.218	39.95	595.9
320	32.000	1.0450	841.00	.1959	.1612	.1790	.8555-02	.7040-02	.7817-02	5.357	40.28	586.8
320	32.000	1.0600	842.00	.1472	.1214	.1346	.6428-02	.5299-02	.5878-02	4.066	32.94	580.4
320	45.000	.92500	929.00	.3030-01	.2570-01	.3090-01	.1349-02	.1122-02	.1349-02	.9000	6.682	545.3
320	45.000	.95000	973.00	.2300-02	.1900-02	.2300-02	.9901-04	.8249-04	.9901-04	.6700-01	.4950	540.3
320	45.000	.97500	973.00	.1500-02	.1300-02	.1500-02	.6565-04	.5470-04	.6565-04	.4400-01	.3290	539.3
320	65.000	.97500	975.00	.5000-03	.4000-03	.5000-03	.2264-04	.1866-04	.2264-04	.1500-01	.1140	539.0
320	180.00	.10000-01	59.000	.1001	.8330-01	.1001	.4370-02	.3635-02	.4370-02	2.918	21.66	545.0
320	180.00	.25000-01	60.000	.2450-01	.2040-01	.2450-01	.1059-02	.8912-03	.1069-02	.7210	5.197	538.5
320	180.00	.50000-01	61.000	.1230-01	.1030-01	.1230-01	.5374-03	.4480-03	.5374-03	.3630	2.318	537.5
320	180.00	.75000-01	62.000	.1430-01	.1150-01	.1430-01	.6246-03	.5206-03	.6246-03	.4210	2.689	538.4
320	180.00	.10000+00	63.000	.2530-01	.2150-01	.2580-01	.1283-02	.9380-03	.1126-02	.7580	4.975	539.9
320	180.00	.12500	64.000	.2340-01	.2450-01	.2940-01	.1283-02	.1069-02	.1283-02	.8620	6.013	540.9
320	180.00	.15000	65.000	.3570-01	.2980-01	.3570-01	.1561-02	.1300-02	.1561-02	1.047	7.300	541.8
320	180.00	.16000	66.000	.9210-01	.7660-01	.9210-01	.4023-02	.3345-02	.4023-02	2.671	14.84	548.9
320	180.00	.17000	67.000	.1161	.9550-01	.1161	.5063-02	.4214-02	.5069-02	3.366	18.70	548.9
320	180.00	.22000	69.000	.1650-01	.1400-01	.1680-01	.7348-03	.6123-03	.7348-03	.4950	3.074	538.8
320	180.00	.40100	72.000	.6300-02	.5200-02	.6300-02	.2729-03	.2275-03	.2729-03	.1840	1.570	537.6
320	180.00	.50000	73.000	.7400-02	.6200-02	.7400-02	.3238-03	.2699-03	.3238-03	.2180	1.859	538.6
320	180.00	.60100	74.000	.6200-02	.5200-02	.6200-02	.2705-03	.2255-03	.2705-03	.1820	1.503	538.5
320	180.00	.70100	75.000	.4200-02	.3500-02	.4200-02	.1851-03	.1543-03	.1851-03	.1250	.9990	537.4

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1821)

## PARAMETRIC DATA

ALPHA = 40.03 BETA = .0000 ELEVTR = 5.000 SPD8RK = .0000  
BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
314	8.000	3.768	40.08	.0000	180.0	960.9	.8800-01	1339.	97.00	3.950	3862.	.7624-04
315	8.000	3.756	40.09	.0000	180.0	858.5	.8800-01	1340.	97.10	3.939	3862.	.7600-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
314	.7813-07	.4907-01	0.0175
315	.7816-07	.4900-01	.2094-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DT/DT DEG. R /SEC	TW DEG. R
314	.00000	.00000	1.0000	.5984	.4914	.5346	.2935-01	.2411-01	.2623-01	18.06	98.30	590.1
314	.00000	.50000-02	2.0000	.6987	.5705	.5705	.3408-01	.2799-01	.2799-01	20.42	137.6	609.5
314	.00000	.10000-01	3.0000	.6339	.5190	.5251	.3110-01	.2547-01	.2577-01	18.82	123.5	600.1
314	.00000	.20000-01	4.0000	.4237	.3498	.3635	.2079-01	.1716-01	.1784-01	13.18	72.42	571.1
314	.00000	.30000-01	5.0000	.3332	.2756	.2908	.1635-01	.1352-01	.1427-01	10.47	57.72	564.6
314	.00000	.40000-01	6.0000	.2980	.2468	.2632	.1462-01	.1211-01	.1291-01	9.429	52.08	550.4
314	.00000	.50000-01	7.0000	.2735	.2256	.2430	.1342-01	.1107-01	.1192-01	8.457	56.21	575.1
314	.00000	.60000-01	8.0000	.2807	.2318	.2512	.1377-01	.1137-01	.1232-01	8.751	54.99	569.7
314	.00000	.70000-01	9.0000	.2406	.1964	.2165	.1181-01	.9736-02	.1062-01	7.436	50.96	575.3
314	.00000	.80000-01	10.000	.2005	.1657	.1816	.9642-02	.8130-02	.8910-02	6.261	43.04	559.1
314	.00000	.90000-01	11.000	.1877	.1553	.1707	.9209-02	.7620-02	.8374-02	5.913	37.28	563.1
314	.00000	.00000-00	12.000	.1771	.1465	.1616	.8685-02	.7188-02	.7928-02	5.573	33.22	563.9
314	.00000	.10000	14.000	.1612	.1336	.1479	.7910-02	.6553-02	.7258-02	5.117	28.29	558.4
314	.00000	.13000	15.000	.1548	.1282	.1422	.7595-02	.6289-02	.6978-02	4.899	28.49	560.3
314	.00000	.14000	16.000	.1432	.1185	.1317	.7066-02	.5815-02	.6462-02	4.520	28.51	561.9
314	.00000	.15000	18.000	.1503	.1248	.1390	.7406-02	.6124-02	.6822-02	4.737	29.00	555.6
314	.00000	.16000	19.000	.1501	.1240	.1384	.7333-02	.6085-02	.6789-02	4.695	29.54	557.5
314	.00000	.17000	20.000	.1520	.1256	.1403	.7439-02	.6162-02	.6893-02	4.746	29.83	569.0
314	.00000	.18000	21.000	.1520	.1207	.1349	.7162-02	.5924-02	.6620-02	4.586	28.89	564.8

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1821)

OH-49B (AEDC V41B-57A) CR81TER FUSELAGE

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/R FT2SEC	H(1TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
314	00000	20000	22.000	.1434	.1185	.1327	.7037-02	.5813-02	.6509-02	4.477	28.14	569.0
314	00000	22500	23.000	.1329	.1099	.1233	.6523-02	.5391-02	.6050-02	4.159	26.16	567.7
314	00000	25000	801.00	.1295	.1070	.1203	.6354-02	.5247-02	.5902-02	4.042	25.41	569.1
314	00000	30000	802.00	.1205	.9550-01	.1119	.5913-02	.4631-02	.5493-02	3.747	23.52	571.5
314	00000	35000	803.00	.1311	.1080	.1215	.5433-02	.5233-02	.5353-02	4.028	25.20	579.0
314	00000	40000	804.00	.1238	.1019	.1148	.6073-02	.5000-02	.5633-02	3.793	24.40	580.7
314	00000	45000	805.00	.1203	.9980-01	.1023	.5413-02	.4457-02	.5019-02	3.362	22.25	584.1
314	00000	50000	806.00	.1026	.8430-01	.9510-01	.5034-02	.4138-02	.4657-02	3.112	21.20	587.1
314	00000	55000	807.00	.1059	.8760-01	.9630-01	.5241-02	.4299-02	.4811-02	3.204	23.21	593.9
314	00000	60000	808.00	.1277	.1047	.1183	.6268-02	.5137-02	.5803-02	3.813	27.58	596.8
314	00000	65000	809.00	.2051	.1673	.1835	.1007-01	.8209-02	.9300-02	5.962	42.78	612.9
314	00000	70000	810.00	.2114	.2528	.2872	.1528-01	.1240-01	.1409-01	8.184	64.94	628.4
314	00000	75000	811.00	.2028	.2541	.3314	.1760-01	.1443-01	.1541-01	10.19	72.44	632.7
314	00000	80000	812.00	.2543	.2556	.3362	.1790-01	.1451-01	.1550-01	10.24	72.77	633.2
314	00000	85000	813.00	.2543	.2556	.3362	.1695-01	.1355-01	.1511-01	9.635	70.83	633.3
314	00000	90000	814.00	.2576	.2582	.3201	.1607-01	.1306-01	.1504-01	9.311	64.25	626.0
314	00000	95000	815.00	.2557	.2534	.3054	.1407-01	.1145-01	.1320-01	8.248	65.57	618.9
314	00000	100000	816.00	.2875	.2336	.2705	.1411-01	.1207-01	.1327-01	8.537	67.44	632.1
314	00000	10150	817.00	.2836	.2461	.2882	.1493-01	.1295-02	.1404-01	8.176	64.79	625.7
314	00000	10300	818.00	.1936	.1630	.1835	.9743-02	.7955-02	.9249-02	5.972	43.29	592.3
314	00000	10450	819.00	.1948	.1599	.1849	.9557-02	.7842-02	.9074-02	5.877	42.65	590.2
314	00000	10600	820.00	.1714	.1465	.1627	.8412-02	.6931-02	.7981-02	5.106	41.78	598.3
314	00000	10750	821.00	.4900-02	.4000-02	.4900-02	.2381-03	.1983-03	.2381-03	.1590	.9390	537.9
314	00000	10900	822.00	.2100-02	.6700-02	.8100-02	.3957-03	.3303-03	.3957-03	.2640	1.639	539.3
314	00000	11050	91.000	.1030-01	.8500-02	.1030-01	.5060-03	.4213-03	.5060-03	.3370	2.036	538.8
314	00000	11200	823.00	.1116	.9160-01	.1034	.5475-02	.4455-02	.5074-02	3.366	26.17	590.5
314	00000	11350	824.00	.1059	.8700-01	.9730-01	.5190-02	.4252-02	.5074-02	3.151	24.40	588.2
314	00000	11500	825.00	.9670-01	.7310-01	.8910-01	.4743-02	.3831-02	.4383-02	2.859	24.75	602.4
314	00000	11650	826.00	.2735	.3031	.3414	.1913-01	.1472-01	.1675-01	10.37	73.68	634.5
314	00000	11800	827.00	.2337	.2337	.2703	.1735-01	.1407-01	.1600-01	9.959	70.93	630.7
314	00000	11950	828.00	.2540	.2347	.2703	.1418-01	.1153-01	.1363-01	8.216	62.78	625.7
314	00000	12100	829.00	.1117	.1525	.1913	.9333-02	.7673-02	.9285-02	5.652	40.76	603.0
314	00000	12250	830.00	.2423	.2423	.2423	.1289-01	.9887-02	.1209-01	5.151	51.38	612.8
314	00000	12400	831.00	.1300-01	.1050-01	.1310-01	.8370-02	.6887-02	.8370-02	5.203	37.88	593.7
314	00000	12550	832.00	.1440	.1440	.1706	.6428-03	.5351-03	.6428-03	4.280	2.654	539.6
314	00000	12700	833.00	.1184	.1460	.1781	.7064-02	.5802-02	.7064-02	4.373	31.80	586.2
314	00000	12850	834.00	.1781	.1460	.1781	.8737-02	.7162-02	.8737-02	5.321	38.50	596.2
314	00000	13000	835.00	.4250-01	.4110-01	.4930-01	.2428-02	.2017-02	.2428-02	1.595	11.82	582.6
314	00000	13150	836.00	.1359	.1118	.1200	.6366-02	.5493-02	.6182-02	4.150	28.34	594.3
314	00000	13300	837.00	.1031	.8470-01	.1010	.5351-02	.4733-02	.4955-02	3.256	22.88	594.9
314	00000	13450	838.00	.1053	.1025	.1159	.6146-02	.5027-02	.5655-02	3.696	24.23	603.6
314	00000	13600	839.00	.2123	.1732	.1945	.1044-01	.8497-02	.9639-02	6.107	45.17	620.4
314	00000	13750	840.00	.2304	.2682	.3047	.1621-01	.1316-01	.1495-01	9.363	64.55	627.6

(RV1821)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISTO) BTU/ R FT2SEC	H(HTO) BTU/ R FT2SEC	H(HTAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTADT DEG. R /SEC	TW DEG. R
314	32.000	.90000	835.00	.2998	.2438	.2805	.1471-01	.1196-01	.1376-01	8.579	61.30	621.9
314	32.000	.95000	837.00	.2998	.2442	.2823	.1471-01	.1196-01	.1376-01	8.579	61.30	621.9
314	32.000	.97500	838.00	.3020	.2452	.2849	.1482-01	.1203-01	.1398-01	8.553	63.97	618.0
314	32.000	1.0150	839.00	.2338	.1908	.2128	.1147-01	.9361-02	.1044-01	6.810	65.28	628.1
314	32.000	1.0300	840.00	.2028	.1662	.1849	.9952-02	.8153-02	.9074-02	6.104	53.35	611.6
314	32.000	1.0450	841.00	.2055	.1683	.1873	.1008-01	.8257-02	.9192-02	6.104	45.97	598.2
314	32.000	1.0600	842.00	.1608	.1320	.1468	.7892-02	.6479-02	.7203-02	4.845	45.61	599.9
314	45.000	.92500	969.00	.3240-01	.2690-01	.3240-01	.1583-02	.1320-02	.1203-02	1.042	39.05	591.3
314	45.000	.95000	973.00	.2700-02	.1900-02	.2300-02	.1115-03	.9273-04	.1115-03	1.042	7.718	549.5
314	45.000	.97500	978.00	.1700-02	.1400-02	.1700-02	.8205-04	.6826-04	.8206-04	1.042	54.00	544.0
314	85.000	.97500	978.00	.5000-03	.4000-03	.5000-03	.2457-04	.2052-04	.2457-04	1.042	40.40	544.0
314	100.00	.10000-01	59.000	.9930-01	.8260-01	.9930-01	.4374-02	.4051-02	.4874-02	3.212	23.82	542.9
314	180.00	.25000-01	60.000	.2420-01	.2020-01	.2420-01	.1183-02	.9888-03	.1188-02	7.910	5.698	539.2
314	180.00	.50000-01	61.000	.1250-01	.1040-01	.1250-01	.6154-03	.5125-03	.6154-03	4.100	2.620	538.3
314	180.00	.75000-01	62.000	.1520-01	.1260-01	.1520-01	.7455-03	.6207-03	.7455-03	4.960	3.166	539.6
314	180.00	.10000-00	63.000	.2500-01	.2080-01	.2500-01	.1223-02	.1023-02	.1229-02	8.160	5.352	541.4
314	180.00	.12500	64.000	.3030-01	.2520-01	.3030-01	.1488-02	.1238-02	.1488-02	9.860	6.866	542.8
314	180.00	.15000	65.000	.3460-01	.2880-01	.3460-01	.1699-02	.1413-02	.1699-02	1.124	7.826	543.6
314	180.00	.16000	66.000	.9120-01	.7570-01	.9120-01	.4476-02	.3716-02	.4476-02	2.928	16.25	551.1
314	180.00	.17000	67.000	.1155	.9590-01	.1155	.5568-02	.4703-02	.5568-02	3.699	20.51	552.7
314	180.00	.20000	69.000	.1630-01	.1360-01	.1630-01	.8016-03	.6670-03	.8016-03	3.520	3.296	541.6
314	180.00	.40100	72.000	.6000-02	.5000-02	.6000-02	.2921-03	.2430-03	.2921-03	1.940	1.648	541.4
314	180.00	.50000	73.000	.8300-02	.6900-02	.8300-02	.4090-03	.3473-03	.4090-03	2.710	2.305	541.8
314	180.00	.60100	74.000	.7200-02	.6000-02	.7200-02	.3510-03	.2920-03	.3510-03	2.330	1.911	542.8
314	180.00	.70100	75.000	.5200-02	.4400-02	.5200-02	.2573-03	.2141-03	.2573-03	1.710	1.360	541.7

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1822)

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = 5.000 SPDBRK = .0000  
 BOFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
252	7.900	19.99	.0000	180.0	108.8	1.00-01	1255.	93.10	.5280	3735.	.1090-04
253	7.900	19.97	.0000	180.0	109.3	1.200-01	1254.	93.00	.5310	3733.	.1096-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	ST FR R =	HREF BTU/ R FT <sup>2</sup> SEC	RN/L X10.6 /FT
252	7.944-07	.5501-01	0.0175	.1774-01	.5433
253	7.989-07	.5466-01	.1778-01	.5464	.5464

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(14W) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TW DEG. R
252	.00000	.00000	1.0000	.9823	.7359	.7528	.1601-01	.1306-01	.1336-01	8.884	48.73	574.5
252	.00000	.50000-02	2.0000	.7471	.6996	.6236	.1326-01	.1082-01	.1107-01	7.375	50.60	573.1
252	.00000	.10000-01	3.0000	.5820	.4522	.4822	.9795-02	.8023-02	.8557-02	5.564	37.24	561.4
252	.00000	.30000-01	5.0000	.2289	.1885	.2155	.4062-02	.3345-02	.3824-02	2.380	13.26	543.3
252	.00000	.40000-01	6.0000	.1837	.1514	.1756	.3260-02	.2687-02	.3115-02	1.918	10.70	540.9
252	.00000	.50000-01	7.0000	.1685	.1399	.1628	.2991-02	.2463-02	.2888-02	1.750	11.81	544.4
252	.00000	.60000-01	8.0000	.1546	.1357	.1502	.2921-02	.2407-02	.2842-02	1.715	10.92	542.4
252	.00000	.70000-01	9.0000	.1358	.1127	.1341	.2427-02	.1999-02	.2379-02	1.424	9.917	542.8
252	.00000	.80000-01	10.0000	.1280	.6900-01	.1085	.1916-02	.1579-02	.1889-02	1.126	7.849	541.8
252	.00000	.90000-01	11.0000	.1105	.8290-01	.9390-01	.1783-02	.1470-02	.1765-02	1.051	6.706	539.9
252	.00000	.10000+03	12.0000	.8300-01	.7320-01	.8830-01	.1576-02	.1299-02	.1566-02	.9290	5.609	537.8
252	.00000	.14000	14.0000	.7110-01	.5870-01	.7130-01	.1263-02	.1041-02	.1261-02	.7470	4.172	538.2
252	.00000	.15000	15.0000	.7170-01	.5310-01	.7170-01	.1272-02	.1049-02	.1273-02	.7520	4.423	538.2
252	.00000	.16000	16.0000	.6450-01	.5320-01	.6460-01	.1144-02	.9434-03	.1146-02	.6760	4.316	538.3
252	.00000	.16000	18.0000	.6200-01	.5610-01	.6820-01	.1206-02	.9947-03	.1211-02	.7130	4.423	538.4
252	.00000	.17000	19.0000	.6630-01	.5470-01	.6670-01	.1177-02	.9706-03	.1183-02	.6950	4.437	538.7
252	.00000	.18000	20.0000	.6440-01	.5310-01	.6450-01	.1143-02	.9426-03	.1150-02	.6750	4.306	539.0
252	.00000	.19000	21.0000	.7260-01	.5390-01	.7310-01	.1287-02	.1062-02	.1297-02	.7620	4.868	537.3
252	.00000	.20000	22.0000	.5940-01	.4900-01	.5930-01	.1055-02	.8698-03	.1064-02	.6230	3.975	538.8

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1822)

OH-49B (AEDC V41B-57A) OFBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.3	H/HREF P=1.0	H/HREF (TAH)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
252	.0000	.22500	23.000	.5500-01	.4590-01	.5820-01	.9867-03	.8138-03	.9977-03	.5830	3.718	538.9
253	.0000	.25000	801.00	.5200-01	.4350-01	.5350-01	.9355-03	.7723-03	.9484-03	.5530	3.529	538.9
254	.0000	.30000	802.00	.4900-01	.4070-01	.5000-01	.8764-03	.7223-03	.8975-03	.5180	3.303	538.9
255	.0000	.35000	803.00	.5100-01	.4200-01	.4800-01	.9044-03	.7459-03	.9159-03	.5340	3.404	538.5
256	.0000	.40000	804.00	.4700-01	.3910-01	.4500-01	.8514-03	.6910-03	.8521-03	.4970	3.266	538.7
257	.0000	.45000	805.00	.4900-01	.4100-01	.4700-01	.7434-03	.6132-03	.7529-03	.4390	2.973	538.6
258	.0000	.50000	806.00	.5300-01	.4500-01	.5100-01	.6527-03	.5713-03	.7015-03	.4090	2.859	538.4
259	.0000	.55000	807.00	.3700-01	.3070-01	.3700-01	.6514-03	.5425-03	.6539-03	.3910	2.908	538.9
260	.0000	.60000	808.00	.3400-01	.2700-01	.3100-01	.6132-03	.5059-03	.6210-03	.3620	2.697	538.7
261	.0000	.65000	809.00	.3200-01	.2500-01	.2900-01	.5830-03	.4763-03	.5974-03	.3420	2.549	538.1
262	.0000	.70000	810.00	.3100-01	.2400-01	.2800-01	.5504-03	.4589-03	.5635-03	.3290	2.530	539.0
263	.0000	.75000	811.00	.3000-01	.2400-01	.2800-01	.5266-03	.4393-03	.5334-03	.3140	2.341	539.0
264	.0000	.80000	812.00	.3100-01	.2500-01	.2900-01	.5543-03	.4572-03	.5614-03	.3270	2.437	538.0
265	.0000	.85000	813.00	.2900-01	.2300-01	.2700-01	.5207-03	.4235-03	.5327-03	.3080	2.371	538.3
266	.0000	.90000	814.00	.2700-01	.2100-01	.2500-01	.4835-03	.3889-03	.4915-03	.2850	2.064	537.3
267	.0000	.95000	815.00	.1900-01	.1500-01	.1800-01	.3266-03	.2662-03	.3314-03	.1910	1.563	536.7
268	.0000	1.0000	816.00	.1050-01	.8700-02	.1050-01	.1869-03	.1542-03	.1924-03	.1110	.9160	536.3
269	.0000	1.0500	817.00	.7100-02	.5900-02	.7400-02	.1263-03	.1047-03	.1308-03	.7500-01	.6230	535.9
270	.0000	1.1000	818.00	.3100-02	.2600-02	.3200-02	.5504-04	.4542-04	.5594-04	.3300-01	.2430	536.9
271	.0000	1.1500	819.00	.1400-01	.1180-01	.1490-01	.2547-03	.2103-03	.2635-03	.1500	1.120	538.8
272	.0000	1.2000	820.00	.3600-01	.2800-01	.3750-01	.6266-03	.5296-03	.6650-03	.3780	3.181	541.4
273	.0000	1.2500	821.00	.3200-01	.2600-01	.3300-01	.5791-03	.4762-03	.5791-03	.1650	1.005	534.3
274	.0000	1.3000	822.00	.3200-01	.2600-01	.3300-01	.5791-03	.4762-03	.5791-03	.3420	2.127	535.2
275	.0000	1.3500	823.00	.7800-02	.6500-02	.7600-02	.1337-03	.1145-03	.1387-03	.8200-01	.4980	540.7
276	.0000	1.4000	824.00	.5100-01	.4200-01	.5160-01	.9049-03	.7468-03	.9163-03	.5330	4.245	541.1
277	.0000	1.4500	825.00	.4650-01	.3840-01	.4720-01	.8276-03	.6821-03	.8322-03	.4870	3.880	540.2
278	.0000	1.5000	826.00	.3240-01	.2670-01	.3580-01	.5500-03	.4740-03	.5823-03	.3390	3.025	540.2
279	.0000	1.5500	827.00	.4110-01	.3390-01	.4170-01	.7398-03	.6017-03	.7391-03	.4300	3.200	540.1
280	.0000	1.6000	828.00	.2400-01	.2030-01	.2540-01	.6197-03	.5103-03	.6276-03	.3650	2.720	539.7
281	.0000	1.6500	829.00	.1600-01	.1300-01	.1820-01	.2872-03	.2373-03	.2872-03	.2520	2.012	538.4
282	.0000	1.7000	830.00	.2200-01	.1750-01	.2220-01	.4265-03	.3519-03	.4373-03	.1700	1.269	536.8
283	.0000	1.7500	831.00	.2200-01	.1750-01	.2220-01	.4265-03	.3519-03	.4373-03	.2070	2.288	537.9
284	.0000	1.8000	832.00	.2120-01	.1750-01	.2120-01	.3262-03	.3105-03	.3762-03	.2230	1.666	535.6
285	.0000	1.8500	833.00	.6200-02	.4800-02	.6200-02	.5546-03	.4563-03	.5546-03	.3290	2.045	535.1
286	.0000	1.9000	834.00	.1500-01	.1200-01	.1570-01	.1459-03	.1205-03	.1459-03	.8700-01	.6480	534.7
287	.0000	1.9500	835.00	.2900-01	.2400-01	.2820-01	.2778-03	.2284-03	.2778-03	.1650	1.232	535.0
288	.0000	2.0000	836.00	.2900-01	.2400-01	.2820-01	.1688-03	.1033-02	.1688-03	.3100	2.315	532.2
289	.0000	2.0500	837.00	.7000-01	.5800-01	.7170-01	.1253-02	.1033-02	.1253-02	.7370	5.139	541.2
290	.0000	2.1000	838.00	.3300-01	.2700-01	.3300-01	.9244-03	.8244-03	.1136-02	.6600	4.746	541.5
291	.0000	2.1500	839.00	.3300-01	.2700-01	.3300-01	.7763-03	.7763-03	.9541-03	.5540	3.743	541.6
292	.0000	2.2000	840.00	.3300-01	.2700-01	.3300-01	.7415-03	.6107-03	.7511-03	.4340	3.338	543.6
293	.0000	2.2500	841.00	.3540-01	.2900-01	.3540-01	.6889-03	.5165-03	.6359-03	.3700	2.667	540.4
294	.0000	2.3000	842.00	.2530-01	.2140-01	.2530-01	.4597-03	.3793-03	.4712-03	.2720	2.024	538.3

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1822)

ROW NUMBER	THETA	X/L	T/C NO	H/HREF R=0.5	H/HREF R=1.0	H/HREF (TAM)	H(IGT) BTU/ R FT2SEC	H(ITO) BTU/ R FT2SEC	H(ITAM) BTU/ R FT2SEC	ROOT BTU/ R FT2SEC	DTWDT DEC. R /SEC	TW DEC. R
252	32.000	93000	537.00	.2210-01	.1830-01	.2280-01	.3930-03	.3242-03	.4047-03	.2320	1.791	538.0
252	32.000	97500	638.00	.7930-02	.6520-02	.8100-02	.1396-03	.1152-03	.1440-03	.6300-01	.6610	536.4
252	32.000	10150	639.00	.9700-02	.8000-02	.9500-02	.1712-03	.1412-03	.1709-03	.1010	.8220	538.8
252	32.000	10300	640.00	.2020-01	.2490-01	.3070-01	.5358-03	.4416-03	.5347-03	.3150	2.468	541.2
252	32.000	10450	641.00	.5470-01	.4510-01	.5460-01	.9712-03	.8000-03	.9593-03	.5590	4.375	543.2
252	32.000	10500	642.00	.6180-01	.5090-01	.6170-01	.1066-02	.9930-03	.1094-02	.6430	5.304	543.3
252	32.000	10550	643.00	.3000-03	.6000-03	.3000-03	.5211-03	.4394-03	.5211-03	.3000-02	.2300-01	533.8
252	32.000	10600	644.00	.7000-03	.6000-03	.7000-03	.1318-04	.1088-04	.1318-04	.8000-01	.5900-01	533.8
252	32.000	10650	645.00	.4800-03	.3000-02	.4400-02	.7709-04	.6398-04	.7709-04	.4600-01	.3740	534.4
252	32.000	10700	646.00	.2873	.3853	.2873	.5097-02	.4182-02	.5097-02	.2952	21.95	548.4
252	32.000	10750	647.00	.9540-01	.7550-01	.9540-01	.1692-02	.1395-02	.1692-02	.9990	7.198	539.0
252	32.000	10800	648.00	.4770-01	.3940-01	.4770-01	.6462-03	.5386-03	.6462-03	.5020	3.212	535.6
252	32.000	10850	649.00	.2510-01	.2070-01	.2510-01	.4455-03	.3679-03	.4455-03	.2650	1.695	534.7
252	32.000	10900	650.00	.1500-01	.1240-01	.1500-01	.2655-03	.2193-03	.2655-03	.1580	1.040	534.4
252	32.000	10950	651.00	.1080-01	.0900-02	.1080-01	.1920-03	.1585-03	.1920-03	.1140	.7990	534.6
252	32.000	11000	652.00	.1000-02	.7400-02	.1000-02	.1592-03	.1316-03	.1592-03	.9000-01	.6630	534.0
252	32.000	11050	653.00	.3430-01	.2000-01	.3430-01	.4303-03	.3553-03	.4303-03	.2560	1.430	535.4
252	32.000	11100	654.00	.5530-01	.4650-01	.5530-01	.1045-02	.0616-03	.1045-02	.5180	3.451	538.1
252	32.000	11150	655.00	.2150-01	.1750-01	.2150-01	.3059-03	.2059-03	.3059-03	.2230	1.365	535.9
252	32.000	11200	656.00	.5900-02	.4300-02	.5900-02	.9265-04	.7650-04	.9265-04	.5500-01	.4700	535.4
252	32.000	11250	657.00	.7200-02	.5930-02	.7200-02	.1277-03	.1054-03	.1277-03	.7600-01	.6470	535.6
252	32.000	11300	658.00	.7500-02	.6200-02	.7500-02	.1335-03	.1102-03	.1335-03	.7900-01	.6540	535.8
252	32.000	11350	659.00	.7000-02	.5870-02	.7000-02	.1244-03	.1027-03	.1244-03	.7400-01	.5910	535.0



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AE\_C VNF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) OR31TER FUSELAGE

(RV1822)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 23.00 BETA = .0000 ELEVTR = 5.000 SPOBCK = .0000  
BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
282	7.940	1.031	19.38	.0000	180.0	210.6	.2300-01	1260.	92.60	.9350	3743.	.2053-04
283	7.940	1.022	19.98	.0000	180.0	208.6	.2200-01	1259.	92.50	.9900	3742.	.2034-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
282	7452-07	.2442-01	0.0175
283	7449-07	.2430-01	.4010-01
			.4028-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
282	.00000	.00000	1.0000	.8972	.7307	.7476	.2191-01	.1784-01	.1826-01	12.11	66.19	581.1
282	.00000	.50000-02	2.0000	.7382	.6015	.6154	.1802-01	.1469-01	.1503-01	9.992	68.35	579.3
282	.00000	.10000-01	3.0000	.5799	.4750	.5065	.1416-01	.1160-01	.1237-01	8.076	54.00	563.3
282	.00000	.30000-01	5.0000	.2300	.1900	.2168	.5617-02	.4639-02	.5293-02	3.356	18.76	536.3
282	.00000	.40000-01	6.0000	.1850	.1561	.1807	.4614-02	.3812-02	.4412-02	2.763	15.46	534.9
282	.00000	.50000-01	7.0000	.1628	.1344	.1573	.3975-02	.3281-02	.3840-02	2.368	16.04	538.0
282	.00000	.60000-01	8.0000	.1608	.1328	.1565	.3937-02	.3243-02	.3822-02	2.343	14.97	537.1
282	.00000	.70000-01	9.0000	.1319	.1089	.1293	.3221-02	.2659-02	.3158-02	1.920	13.41	537.7
282	.00000	.80000-01	10.000	.1055	.8720-01	.1041	.2377-02	.2129-02	.2541-02	1.542	10.78	535.2
282	.00000	.90000-01	11.000	.1029	.6510-01	.1019	.2513-02	.2077-02	.2498-02	1.509	9.660	533.1
282	.00000	1.0000-00	12.000	.9170-01	.7590-01	.9110-01	.2238-02	.1850-02	.2224-02	1.344	8.137	533.2
282	.00000	.12000	14.000	.7730-01	.6440-01	.7780-01	.1931-02	.1693-02	.1893-02	1.146	6.424	531.1
282	.00000	.13000	15.000	.6860-01	.5620-01	.6870-01	.1676-02	.1385-02	.1677-02	1.009	5.954	531.5
282	.00000	.14000	16.000	.6390-01	.5280-01	.6400-01	.1559-02	.1289-02	.1562-02	.9380	6.011	531.9
282	.00000	.16000	18.000	.6530-01	.5400-01	.6560-01	.1595-02	.1318-02	.1601-02	.9590	5.970	532.3
282	.00000	.17000	19.000	.5360-01	.5260-01	.6390-01	.1553-02	.1284-02	.1561-02	.9340	5.976	532.4
282	.00000	.18000	20.000	.6330-01	.5290-01	.6430-01	.1561-02	.1291-02	.1571-02	.9380	6.008	532.6
282	.00000	.19000	21.000	.6180-01	.5110-01	.6220-01	.1509-02	.1248-02	.1520-02	.9090	5.825	531.1
282	.00000	.20000	22.000	.5910-01	.4830-01	.5960-01	.1443-02	.1193-02	.1456-02	.8670	5.551	532.8

AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 75

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(OTO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
282	.00000	.22500	23.000	.5360-01	.4430-01	.5420-01	.1308-02	.1323-02	.7860	5.035	532.7
282	.00000	.25000	801.00	.5260-01	.4350-01	.5330-01	.1285-02	.1301-02	.7720	4.943	532.6
282	.00000	.30000	802.00	.4670-01	.3860-01	.4730-01	.1141-02	.1156-02	.6850	4.387	533.1
282	.00000	.35000	803.00	.4830-01	.4000-01	.4900-01	.1181-02	.1195-02	.7070	4.525	533.2
282	.00000	.40000	804.00	.4690-01	.3870-01	.4757-01	.1144-02	.1159-02	.6850	4.507	535.2
282	.00000	.45000	805.00	.4140-01	.3420-01	.4153-01	.1011-02	.1023-02	.6040	4.092	536.3
282	.00000	.50000	805.00	.3800-01	.3130-01	.3840-01	.9269-03	.9387-03	.5530	3.661	537.4
282	.00000	.55000	807.00	.3560-01	.2940-01	.3600-01	.8684-03	.8794-03	.5170	3.848	538.7
282	.00000	.60000	809.00	.3170-01	.2620-01	.3210-01	.7743-03	.7841-03	.4610	3.431	538.6
282	.00000	.65000	809.00	.3020-01	.2490-01	.3060-01	.7376-03	.7469-03	.4380	3.262	539.5
282	.00000	.70000	810.00	.2800-01	.2310-01	.2840-01	.6848-03	.6935-03	.4070	3.138	539.8
282	.00000	.75000	811.00	.2900-01	.2390-01	.2940-01	.7081-03	.7171-03	.4220	3.141	539.1
282	.00000	.80000	812.00	.2970-01	.2450-01	.3010-01	.7255-03	.7347-03	.4330	3.224	537.3
282	.00000	.85000	813.00	.2920-01	.2410-01	.2990-01	.7130-03	.7293-03	.4260	3.284	536.5
282	.00000	.90000	814.00	.2510-01	.2080-01	.2570-01	.6133-03	.6284-03	.3670	2.653	534.7
282	.00000	.95000	815.00	.1450-01	.1210-01	.1500-01	.3555-03	.3663-03	.2140	1.776	533.4
282	.00000	.92500	815.00	.8000-02	.6600-02	.8300-02	.1964-03	.2022-03	.1180	.9790	533.1
282	.00000	.95000	817.00	.6900-02	.7400-02	.9200-02	.2185-03	.2254-03	.1310	1.087	534.0
282	.00000	.97500	818.00	.3800-02	.3100-02	.3900-02	.9271-04	.9591-04	.5500-01	4.130	536.6
282	.00300	1.0150	819.00	.2700-01	.2230-01	.2790-01	.6590-03	.6818-03	.3920	2.921	538.5
282	.00000	1.0600	821.00	.6730-01	.5540-01	.6360-01	.1642-02	.1699-02	.8164	8.164	542.7
282	.00000	1.1000	821.00	.1860-01	.1540-01	.1850-01	.4540-03	.4540-03	.2760	1.678	525.5
282	.00000	1.1500	823.00	.3210-01	.2660-01	.3210-01	.7840-03	.7840-03	.4750	2.958	527.2
282	.00000	1.2000	823.00	.1120-01	.9200-02	.1120-01	.2724-03	.2724-03	.1660	1.009	524.4
282	.00000	1.2500	824.00	.4920-01	.4060-01	.4990-01	.1201-02	.1216-02	.7160	5.715	537.7
282	.00000	1.3000	824.00	.4600-01	.3790-01	.4660-01	.1123-02	.1137-02	.6670	5.314	540.1
282	.00000	1.3500	825.00	.3020-01	.2490-01	.3050-01	.7375-03	.7469-03	.4370	3.905	540.6
282	.00000	1.4000	825.00	.3640-01	.3000-01	.3690-01	.8891-03	.9004-03	.5270	3.921	540.7
282	.00000	1.4500	826.00	.3310-01	.2610-01	.3350-01	.8074-03	.8177-03	.4810	3.582	538.1
282	.00000	1.5000	827.00	.2610-01	.2160-01	.2670-01	.6371-03	.6528-03	.3820	3.050	534.8
282	.00000	1.5500	828.00	.2200-01	.2320-01	.2800-01	.6841-03	.6841-03	.4110	3.068	533.1
282	.00000	1.6000	828.00	.4570-01	.3780-01	.4570-01	.1117-02	.1117-02	.6590	4.991	534.6
282	.00000	1.6500	829.00	.3190-01	.2640-01	.3190-01	.7783-03	.7783-03	.4710	3.525	529.0
282	.00000	1.7000	829.00	.3500-01	.2900-01	.3500-01	.6555-03	.6555-03	.5190	3.239	527.2
282	.00000	1.7500	830.00	.1590-01	.1310-01	.1590-01	.3876-03	.3876-03	.2340	1.743	530.3
282	.00000	1.8000	831.00	.2330-01	.1930-01	.2330-01	.5694-03	.5694-03	.2340	2.571	530.0
282	.00000	1.8500	831.00	.1540-01	.1280-01	.1540-01	.3762-03	.3762-03	.2300	1.731	531.3
282	.00000	1.9000	831.00	.7100-01	.5860-01	.7190-01	.1432-02	.1432-02	.1034	7.219	537.7
282	.00000	1.9500	832.00	.5910-01	.4890-01	.5990-01	.1190-02	.1190-02	.8560	6.161	540.7
282	.00000	2.0000	833.00	.5220-01	.4300-01	.5280-01	.1274-02	.1290-02	.7540	5.100	541.4
282	.00000	2.0500	834.00	.3100-01	.2560-01	.3140-01	.7582-03	.7678-03	.4490	3.454	541.4
282	.00000	2.1000	835.00	.3370-01	.2790-01	.3420-01	.8240-03	.8345-03	.4910	3.540	537.8
282	.00000	2.1500	835.00	.2640-01	.2180-01	.2700-01	.6436-03	.6596-03	.3860	2.880	534.1

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITTER FUSELAGE

(RV1822)

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	COOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
282	32.000	.95000	837.00	.1880-01	.1560-01	.1940-01	.4593-03	.7798-03	.4728-03	.2760	2.135	532.1
282	32.000	.97500	839.00	.6003-02	.5000-02	.6200-02	.1464-03	.1212-03	.1510-03	.6900-01	.7110	528.3
282	32.000	1.0150	839.00	.6800-02	.5600-02	.6800-02	.1665-03	.1275-03	.1662-03	.1000+00	.8110	535.4
282	32.000	1.0300	840.00	.3650-01	.2940-01	.3550-01	.8697-03	.7178-03	.6679-03	.5180	4.058	538.5
282	32.000	1.0450	841.00	.5830-01	.4810-01	.5820-01	.1423-02	.1174-02	.1420-02	.8450	6.509	539.7
282	32.000	1.0600	842.00	.7130-01	.5880-01	.7120-01	.1741-02	.1436-02	.1737-02	1.034	8.545	540.0
282	45.000	.92500	969.00	.1400-02	.1200-02	.1400-02	.3414-04	.2828-04	.3414-04	.2100-01	.1560	525.2
282	45.000	.95000	973.00	.1900-02	.1600-02	.1900-02	.4621-04	.3828-04	.4621-04	.2800-01	.2100	526.2
282	45.000	.97500	978.00	.4000-02	.3300-02	.4000-02	.9803-04	.8119-04	.9803-04	.6000-01	.4460	526.1
282	71.000	.97500	977.00	.4000-02	.3300-02	.4000-02	.9650-04	.7992-04	.9650-04	.5900-01	.4390	526.2
282	85.000	.97500	976.00	.5900-02	.4900-02	.5900-02	.1430-03	.1184-03	.1430-03	.8700-01	.6510	526.4
282	180.00	.10000-01	59.300	.2818	.2322	.2818	.6822-02	.5659-02	.6822-02	4.053	30.09	544.7
282	180.00	.25000-01	60.000	.9160-01	.7530-01	.9160-01	.2236-02	.1650-02	.2236-02	1.348	9.756	530.7
282	180.00	.50000-01	61.000	.4560-01	.3770-01	.4560-01	.1112-02	.9211-03	.1112-02	.6750	4.334	526.9
282	180.00	.75000-01	62.000	.2370-01	.1970-01	.2370-01	.5793-03	.4798-03	.5793-03	.3520	2.262	525.8
282	180.00	.10000+00	63.000	.1460-01	.1210-01	.1460-01	.3565-03	.2953-03	.3565-03	.2170	1.433	525.9
282	180.00	.12500	64.000	.1020-01	.8400-02	.1020-01	.2486-03	.2059-03	.2486-03	.1510	1.062	526.0
282	180.00	.15000	65.000	.6900-02	.5700-02	.6900-02	.1688-03	.1398-03	.1688-03	.1030	.7220	525.5
282	180.00	.16000	66.000	.1630-01	.1560-01	.1630-01	.4600-03	.3809-03	.4600-03	.2790	1.567	527.2
282	180.00	.17000	67.000	.6600-01	.5460-01	.6600-01	.1612-02	.1334-02	.1612-02	.9720	5.451	530.7
282	180.00	.20000	68.000	.1910-01	.1580-01	.1910-01	.4658-03	.3856-03	.4658-03	.2830	1.768	527.0
282	180.00	.40100	72.000	.6800-02	.5600-02	.6800-02	.1659-03	.1374-03	.1659-03	.1010	.8650	526.2
282	180.00	.50000	73.000	.9400-02	.7800-02	.9400-02	.2292-03	.1698-03	.2292-03	.1390	1.193	526.8
282	180.00	.60100	74.000	.9800-02	.8100-02	.9800-02	.2397-03	.1985-03	.2397-03	.1460	1.208	526.4
282	180.00	.70100	75.000	.7800-02	.6500-02	.7800-02	.1914-03	.1585-03	.1914-03	.1160	.9360	525.5

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B23)

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
BOFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 <sup>6</sup> /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
254	7.900	.5532	30.01	.0000	180.0	110.8	.1200-01	1255.	93.10	.5380	3735.	.1110-04
255	7.900	.5478	30.01	.0000	180.0	109.6	.1200-01	1254.	93.00	.5320	3734.	.1099-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT2SEC	ST FR R =
254	.7495-07	.1791-01		0.0175
255	.7490-07	.1781-01		.5479-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10I) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	OOT BTU/ R FT2SEC	OTWOT DEG. R /SEC	TW DEG. R
254	.00000	.00000	1.0000	.7867	.6429	.6757	.1409-01	.1151-01	.1210-01	7.900	43.46	568.7
254	.00000	.50000-02	2.0000	.7551	.6162	.6197	.1352-01	.1103-01	.1110-01	7.524	51.62	573.1
254	.00000	.10000-01	3.0000	.6271	.5130	.5304	.1123-01	.9185-02	.9498-02	6.335	42.31	565.4
254	.00000	.30000-01	5.0000	.2939	.2417	.2650	.5262-02	.4327-02	.4746-02	3.055	16.98	548.9
254	.00000	.40000-01	6.0000	.2424	.1994	.2216	.4340-02	.3570-02	.3968-02	2.525	14.03	547.9
254	.00000	.50000-01	7.0000	.2259	.1856	.2085	.4045-02	.3323-02	.3734-02	2.335	15.70	552.2
254	.00000	.60000-01	8.0000	.2304	.1894	.2143	.4126-02	.3392-02	.3837-02	2.392	15.18	549.9
254	.00000	.70000-01	9.0000	.1932	.1588	.1810	.3459-02	.2844-02	.3242-02	2.005	13.91	550.1
254	.00000	.80000-01	10.000	.1547	.1272	.1458	.2769-02	.2278-02	.2611-02	1.612	11.21	547.5
254	.00000	.90000-01	11.000	.1504	.1238	.1424	.2693-02	.2217-02	.2549-02	1.573	10.01	545.4
254	.00000	.10000+00	12.000	.1370	.1128	.1303	.2454-02	.2020-02	.2332-02	1.435	8.638	544.7
254	.00000	.12000	14.000	.1205	.9930-01	.1152	.2159-02	.1778-02	.2062-02	1.265	7.051	543.2
254	.00000	.13000	15.000	.1144	.9420-01	.1095	.2049-02	.1687-02	.1961-02	1.201	7.043	543.4
254	.00000	.14000	16.000	.1048	.8630-01	.1004	.1876-02	.1545-02	.1798-02	1.100	7.001	543.4
254	.00000	.16000	18.000	.1077	.8870-01	.1035	.1929-02	.1589-02	.1853-02	1.130	6.995	543.6
254	.00000	.17000	19.000	.1068	.8800-01	.1028	.1913-02	.1575-02	.1840-02	1.120	7.132	543.9
254	.00000	.18000	20.000	.1068	.8600-01	.1029	.1913-02	.1575-02	.1842-02	1.121	7.138	543.5
254	.00000	.19000	21.000	.8710-01	.7180-01	.8400-01	.1559-02	.1285-02	.1503-02	.9170	5.848	541.1
254	.00000	.20000	22.000	.1025	.8440-01	.9900-01	.1835-02	.1512-02	.1772-02	1.076	6.853	543.2

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OH-49B (AEDC V418-57A) ORBITER FUSELAGE

(RV1823)

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10I) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
254	.00000	.22500	23.000	.9130-01	.7820-01	.6340-01	.533-02	.1347-02	.1582-02	.9600	6.114	542.4
254	.00000	.25000	801.00	.8300-01	.7330-01	.8630-01	.1593-02	.1313-02	.1545-02	.9360	5.963	542.2
254	.00000	.30000	802.00	.8300-01	.6910-01	.8130-01	.1501-02	.1235-02	.1455-02	.8810	5.616	542.2
254	.00000	.35000	803.00	.8570-01	.7140-01	.8410-01	.1592-02	.1279-02	.1505-02	.9110	5.800	542.9
254	.00000	.40000	804.00	.8540-01	.6950-01	.8190-01	.1511-02	.1245-02	.1465-02	.8680	5.822	542.1
254	.00000	.45000	805.00	.7630-01	.6290-01	.7400-01	.1367-02	.1126-02	.1325-02	.8020	5.421	542.5
254	.00000	.50000	806.00	.7120-01	.5860-01	.6900-01	.1274-02	.1050-02	.1235-02	.7490	5.216	542.2
254	.00000	.55000	807.00	.6730-01	.5550-01	.6530-01	.1268-02	.0933-03	.1169-02	.7070	5.256	543.0
254	.00000	.60000	808.00	.6130-01	.5050-01	.5940-01	.1097-02	.0835-03	.1064-02	.6440	4.785	542.5
254	.00000	.65000	809.00	.5550-01	.4820-01	.5630-01	.1049-02	.0635-03	.1017-02	.6150	4.566	541.4
254	.00000	.70000	810.00	.5330-01	.4830-01	.5650-01	.1044-02	.0600-03	.1013-02	.6120	4.702	543.5
254	.00000	.75000	811.00	.5730-01	.4770-01	.5610-01	.1035-02	.0533-03	.1005-02	.6070	4.513	543.2
254	.00000	.80000	812.00	.5970-01	.4950-01	.5720-01	.1055-02	.0700-03	.1024-02	.6200	4.606	542.7
254	.00000	.85000	813.00	.5460-01	.4500-01	.5380-01	.0978-03	.0860-03	.0954-03	.5740	4.416	542.5
254	.00000	.90000	814.00	.5060-01	.4170-01	.4980-01	.0865-03	.0747-03	.0909-03	.5330	3.839	541.2
254	.00000	.92500	815.00	.3010-01	.2480-01	.2980-01	.5384-03	.4440-03	.5306-03	.3180	2.628	539.3
254	.00000	.95000	816.00	.1500-01	.1240-01	.1460-01	.2687-03	.2217-03	.2655-03	.1590	1.315	538.7
254	.00000	.97500	817.00	.1520-01	.1580-01	.1900-01	.3441-03	.2838-03	.3409-03	.2030	1.679	539
254	.00000	1.0150	818.00	.7400-02	.6100-02	.7400-02	.1359-03	.1095-03	.1321-03	.7800-01	.5780	543.9
254	.00000	1.0300	819.00	.5300-01	.4360-01	.5270-01	.9402-03	.7812-03	.9430-03	.5540	4.112	545.8
254	.00000	1.0600	821.00	.1112	.1112	.1345	.2424-02	.1932-02	.2408-02	1.402	11.74	551.2
254	.00000	1.0600	83.000	.1060-01	.8700-02	.1060-01	.1891-03	.1562-03	.1891-03	1.120	.6800	535.0
254	11.500	.20000	91.000	.1320-01	.1090-01	.1320-01	.2359-03	.1948-03	.2359-03	1.400	.8730	534.5
254	14.000	.50000-01	90.000	.2100-02	.1700-02	.2100-02	.3712-04	.3065-04	.3712-04	.2200-01	.1340	534.6
254	17.500	.40000	823.00	.8310-01	.7010-01	.8220-01	.1524-02	.1255-02	.1478-02	.8900	7.075	545.8
254	17.500	.50000	824.00	.7710-01	.6350-01	.7480-01	.1381-02	.1136-02	.1339-02	.8060	6.406	545.8
254	17.500	.60000	825.00	.5930-01	.4430-01	.5220-01	.9643-03	.7939-03	.9351-03	.5640	5.022	545.0
254	17.500	.70000	826.00	.5930-01	.4930-01	.5910-01	.1073-02	.0832-03	.1040-02	.6270	4.652	543.5
254	17.500	.80000	827.00	.5970-01	.4930-01	.5730-01	.1063-02	.0803-03	.1036-02	.6260	4.653	543.5
254	17.500	.90000	828.00	.4490-01	.3700-01	.4410-01	.8042-03	.6627-03	.7904-03	.4730	3.767	541.6
254	20.000	.92500	971.00	.5500-01	.4530-01	.5500-01	.9641-03	.8109-03	.9841-03	.5780	4.300	541.9
254	20.000	.95000	975.00	.6190-01	.6930-01	.8490-01	.1521-02	.1252-02	.1521-02	.8800	6.609	544.2
254	24.000	.20000	980.00	.5540-01	.4660-01	.5630-01	.1011-02	.0839-03	.1011-02	.5990	4.460	537.3
254	30.000	.92500	970.00	.3310-01	.2730-01	.3310-01	.5927-03	.4869-03	.5927-03	.9800-01	.6100	534.3
254	30.000	.95000	974.00	.4200-01	.3710-01	.4500-01	.1647-03	.1361-03	.1647-03	.3510	2.612	538.0
254	30.000	.97500	979.00	.2500-01	.2440-01	.2950-01	.8051-03	.6641-03	.8051-03	.4760	3.544	538.5
254	32.000	.83100+10	832.00	.1063	.8750-01	.1030	.5276-03	.4360-03	.5276-03	.3150	2.354	532.3
254	32.000	.832.00	832.00	.8270-01	.7300-01	.8600-01	.1903-02	.1566-02	.1845-02	1.112	7.735	545.3
254	32.000	.833.00	833.00	.7890-01	.6320-01	.7450-01	.1599-02	.1307-02	.1540-02	.9270	6.652	546.1
254	32.000	.834.00	834.00	.6560-01	.5490-01	.6460-01	.1193-02	.0923-03	.1157-02	.6930	5.418	545.8
254	32.000	.835.00	835.00	.5520-01	.4550-01	.5320-01	.9892-03	.8148-03	.9593-03	.5800	4.170	543.2
254	32.000	.835.00	835.00	.4400-01	.3620-01	.4320-01	.7871-03	.6488-03	.7735-03	.4630	3.445	541.2

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OH-49B (AEDC V41B-57A) CRBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H I REF R=1.0	H/HREF R=1.0	H/HREF (TAW)	H(I9T0) BTU/ R F12SEC	H(I70) BTU/ R F12SEC	H(I7AW) BTU/ R F12SEC	COOT BTU/ F12SEC	DTWOT DEG. R /SEC	TW DEG. R
254	32.000	.95000	837.00	.2900-01	.2390-01	.2870-01	.5198-03	.4288-03	.5138-03	.3070	2.351	539.1
254	32.000	.97500	838.00	.1430-01	.1180-01	.1420-01	.2563-03	.2116-03	.2539-03	.1520	1.216	539.0
254	32.000	1.0150	839.00	.1500-01	.1240-01	.1430-01	.2689-03	.2214-03	.2557-03	.1570	1.273	545.0
254	32.000	1.0300	840.00	.7060-01	.5910-01	.6740-01	.1225-02	.1040-02	.1207-02	.7360	5.743	547.6
254	32.000	1.0450	841.00	.1100	.5040-01	.1050	.1959-02	.1619-02	.1879-02	1.144	8.769	548.6
254	32.000	1.0600	842.00	.1169	.9800-01	.1114	.2091-02	.1719-02	.1955-02	1.215	10.00	548.5
254	45.000	.92500	939.00	.3100-02	.2600-02	.3100-02	.5530-04	.4570-04	.5530-04	.3300-01	.2470	532.3
254	45.000	.95000	973.00	.3000-03	.2600-03	.3000-03	.4576-05	.3781-05	.4576-05	.3000-02	.2000-01	532.8
254	45.000	.97500	978.00	.3000-03	.2600-03	.3000-03	.4736-05	.3913-05	.4736-05	.3000-02	.2100-01	532.3
254	75.000	.97500	977.00	.5000-03	.5000-03	.5000-03	.9355-05	.8143-05	.9355-05	.6000-02	.4400-01	532.5
254	85.000	.97500	976.00	.1000-02	.5000-03	.1000-02	.1854-04	.1533-04	.1854-04	.1100-01	.8300-01	532.7
254	150.00	.1000-01	98.00	.1839	.1537	.1539	.3347-02	.2753-02	.3347-02	1.349	14.44	547.5
254	180.00	.2500-01	60.000	.5530-01	.4640-01	.5530-01	.1208-02	.8310-03	.1009-02	.5940	.4.276	540.4
254	180.00	.5000-01	61.000	.2530-01	.2030-01	.2530-01	.4527-03	.3735-03	.4527-03	.2580	1.710	539.0
254	180.00	.7500-01	62.090	.1450-01	.1200-01	.1450-01	.2601-03	.2147-03	.2601-03	.1540	.9860	536.5
254	180.00	1.0000-00	63.000	.9800-02	.8100-02	.9800-02	.1750-03	.1445-03	.1750-03	.1040	.6840	535.3
254	180.00	.12500	64.000	.9200-02	.7600-02	.9200-02	.1655-03	.1357-03	.1655-03	.9800-01	.6890	534.9
254	180.00	.15000	65.000	.8700-02	.7200-02	.8700-02	.1552-03	.1291-03	.1552-03	.9200-01	.6450	534.7
254	180.00	.16000	66.000	.2500-01	.2060-01	.2500-01	.4476-03	.3695-03	.4476-03	.2660	1.487	535.7
254	180.00	.17000	67.000	.6310-01	.5210-01	.6310-01	.1130-02	.9326-03	.1130-02	.6690	3.737	537.9
254	180.00	.20000	69.000	.1550-01	.1260-01	.1550-01	.2779-03	.2234-03	.2779-03	.1690	1.027	535.2
254	180.00	.40100	72.000	.5200-02	.4300-02	.5200-02	.9236-04	.7629-04	.9236-04	.5500-01	.4700	533.6
254	180.00	.50000	73.000	.4900-02	.4000-02	.4900-02	.8724-04	.7206-04	.8724-04	.5200-01	.4440	533.6
254	180.00	.60100	74.000	.5600-02	.4700-02	.5600-02	.1011-03	.8353-04	.1011-03	.6000-01	.4980	533.4
254	180.00	.70100	75.000	.5800-02	.4800-02	.5800-02	.1042-03	.8613-04	.1042-03	.6200-01	.4980	532.9

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ORIGINAL PAGE IS POOR

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1823)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
 SDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	P0 PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
284	7.940	1.023	30.02	.0000	180.0	209.3	.2300-01	1261.	92.60	.9930	3745.	.2038-04
285	7.940	1.024	30.02	.0000	180.0	210.2	.2300-01	1254.	92.90	.9980	3750.	.2042-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
284	.7459-07		0.0175
285	.7479-07		.4025-01 .4023-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
284	.00000	.00000	1.0000	.7680	.6275	.6596	.1870-01	.1528-01	.1606-01	10.54	57.89	571.2
284	.00000	.50000-02	2.0000	.7501	.6118	.6153	.1826-01	.1489-01	.1498-01	10.18	69.70	577.3
284	.00000	.10000-01	3.0000	.6088	.4982	.5151	.1482-01	.1213-01	.1254-01	8.413	56.14	567.1
284	.00000	.30000-01	5.0000	.2905	.2395	.2624	.7074-02	.5830-02	.6388-02	4.181	23.29	543.6
284	.00000	.40000-01	6.0000	.2340	.1931	.2143	.5828-02	.4701-02	.5217-02	3.386	18.89	540.5
284	.00000	.50000-01	7.0000	.2268	.1868	.2096	.5523-02	.4549-02	.5103-02	3.251	21.92	546.1
284	.00000	.60000-01	8.0000	.2252	.1855	.2106	.5508-02	.4540-02	.5128-02	3.258	20.74	543.2
284	.00000	.70000-01	9.0000	.1955	.1611	.1834	.4760-02	.3923-02	.4464-02	2.811	19.57	544.1
284	.00000	.80000-01	10.000	.1545	.1274	.1457	.3761-02	.3101-02	.3548-02	2.227	15.52	542.5
284	.00000	.90000-01	11.000	.1451	.1197	.1374	.3532-02	.2914-02	.3346-02	2.101	13.40	539.7
284	.00000	.10000+00	12.000	.1310	.1081	.1246	.3183-02	.2632-02	.3033-02	1.900	11.47	539.1
284	.00000	.12000	14.000	.1221	.1009	.1168	.2973-02	.2456-02	.2843-02	1.781	9.958	535.9
284	.00000	.13000	15.000	.1134	.9370-01	.1086	.2761-02	.2281-02	.2645-02	1.652	9.723	536.4
284	.00000	.14000	16.000	.1054	.8700-01	.1011	.2585-02	.2119-02	.2460-02	1.534	9.802	536.6
284	.00000	.16000	18.000	.1064	.8790-01	.1023	.2530-02	.2139-02	.2490-02	1.548	9.615	537.0
284	.00000	.17000	19.000	.1077	.8300-01	.1037	.2523-02	.2166-02	.2525-02	1.567	10.01	537.4
284	.00000	.18000	20.000	.1075	.8870-01	.1035	.2617-02	.2161-02	.2521-02	1.563	9.984	537.3
284	.00000	.19000	21.000	.9490-01	.7240-01	.9160-01	.2311-02	.1909-02	.2229-02	1.386	8.860	535.1
284	.00000	.20000	22.000	.9310-01	.8180-01	.9570-01	.2412-02	.1992-02	.2329-02	1.442	9.209	535.9

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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(RV1823)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
284	.00000	.22500	23.000	.9420-01	.7780-01	.9120-01	.2292-02	.1894-02	.2220-02	1.373	8.775	535.8
284	.00000	.25000	801.00	.8890-01	.7350-01	.8630-01	.2165-02	.1768-02	.2100-02	1.297	8.289	535.7
284	.00000	.30000	802.00	.8220-01	.6780-01	.7970-01	.2000-02	.1652-02	.1941-02	1.195	7.637	537.0
284	.00000	.35000	803.00	.8420-01	.6950-01	.8170-01	.2050-02	.1692-02	.1989-02	1.221	7.793	539.1
284	.00000	.40000	804.00	.8260-01	.6820-01	.8020-01	.2012-02	.1660-02	.1952-02	1.197	7.862	539.7
284	.00000	.45000	805.00	.7370-01	.6050-01	.7150-01	.1795-02	.1480-02	.1741-02	1.065	7.203	541.1
284	.00000	.50000	806.00	.6630-01	.5680-01	.6680-01	.1676-02	.1382-02	.1625-02	.9940	6.928	541.5
284	.00000	.55000	807.00	.6830-01	.5630-01	.6620-01	.1663-02	.1371-02	.1613-02	.9840	6.577	543.0
284	.00000	.60000	808.00	.6140-01	.5050-01	.5960-01	.1495-02	.1233-02	.1450-02	.8950	6.311	542.8
284	.00000	.65000	809.00	.5630-01	.4540-01	.5460-01	.1371-02	.1130-02	.1330-02	.8100	6.017	543.9
284	.00000	.70000	810.00	.5730-01	.4430-01	.5320-01	.1310-02	.1079-02	.1270-02	.7740	5.567	543.2
284	.00000	.75000	811.00	.5230-01	.4290-01	.5050-01	.1267-02	.1044-02	.1229-02	.7490	5.567	543.2
284	.00000	.80000	812.00	.5760-01	.4700-01	.5530-01	.1388-02	.1144-02	.1346-02	.8220	6.106	542.6
284	.00000	.85000	813.00	.5510-01	.4540-01	.5400-01	.1341-02	.1106-02	.1315-02	.7950	6.117	541.7
284	.00000	.90000	814.00	.5150-01	.4250-01	.5070-01	.1255-02	.1036-02	.1233-02	.7480	5.386	539.0
284	.00000	.95000	815.00	.3650-01	.3020-01	.3610-01	.6912-03	.7360-03	.8783-03	3.530	4.411	537.0
284	.00000	.95000	816.00	.2730-01	.1970-01	.2360-01	.5818-03	.4807-03	.5748-03	3.490	2.892	535.0
284	.00000	.97500	817.00	.2630-01	.2170-01	.2610-01	.6408-03	.5293-03	.6348-03	3.830	3.175	536.6
284	.00000	1.0150	818.00	.2630-01	.4310-01	.5190-01	.1272-02	.1048-02	.1264-02	7.500	5.570	545.0
284	.00000	1.0300	819.00	.1151	.9470-01	.1143	.2802-02	.2306-02	.2784-02	1.645	12.19	547.6
284	.00000	1.0600	821.00	.2591	.2050	.2484	.6089-02	.4992-02	.6049-02	3.493	29.12	561.0
284	.00000	.15000	89.000	.1400-02	.1100-02	.1400-02	.3348-04	.2773-04	.3348-04	.2000-01	.1240	526.5
284	.00000	.20000	91.000	.7000-02	.5900-02	.7000-02	.1697-03	.1406-03	.1697-03	.1030	.6460	525.0
284	.00000	.40000	823.00	.8120-01	.6690-01	.7870-01	.1976-02	.1629-02	.1916-02	1.170	9.320	542.4
284	.00000	.50000	824.00	.7780-01	.6410-01	.7540-01	.1893-02	.1560-02	.1836-02	1.116	8.879	544.9
284	.00000	.60000	825.00	.5220-01	.4300-01	.5060-01	.1271-02	.1047-02	.1232-02	.7930	6.655	545.7
284	.00000	.70000	826.00	.5530-01	.4610-01	.5420-01	.1362-02	.1122-02	.1321-02	.8030	5.961	545.0
284	.00000	.80000	827.00	.5740-01	.4730-01	.5550-01	.1395-02	.1151-02	.1354-02	.8260	6.139	543.0
284	.00000	.90000	828.00	.4400-01	.3530-01	.4320-01	.1070-02	.8834-03	.1052-02	.6370	5.084	539.2
284	.00000	.92500	971.00	.9770-01	.8050-01	.9770-01	.2379-02	.1961-02	.2379-02	1.406	10.44	543.7
284	.00000	.95000	975.00	.1257	.1035	.1257	.3050-02	.2521-02	.3050-02	1.233	13.38	545.3
284	.00000	.97500	980.00	.6430-01	.6270-01	.6430-01	.2052-02	.1696-02	.2052-02	.5800-01	.3630	524.6
284	.00000	.99000	93.000	.3900-02	.3200-02	.3900-02	.9527-04	.7893-04	.9527-04	.5800-01	.3630	524.6
284	.00000	.92500	970.00	.6670-01	.5510-01	.6670-01	.1624-02	.1341-02	.1624-02	.9690	7.221	538.0
284	.00000	.95000	974.00	.7330-01	.6050-01	.7330-01	.1784-02	.1473-02	.1784-02	1.055	7.937	537.6
284	.00000	.97500	979.00	.2590-01	.2150-01	.2590-01	.6308-03	.5228-03	.6308-03	.3850	2.886	524.7
284	.00000	.40000	831.00+10	.1046	.8630-01	.1014	.2547-02	.2100-02	.2470-02	1.512	10.54	541.1
284	.00000	.50000	832.00	.8920-01	.7350-01	.8650-01	.2172-02	.1790-02	.2107-02	1.281	9.201	545.0
284	.00000	.60000	833.00	.7570-01	.6240-01	.7350-01	.1844-02	.1519-02	.1788-02	.7311	7.311	546.7
284	.00000	.70000	834.00	.6230-01	.5110-01	.6020-01	.1511-02	.1244-02	.1465-02	.8900	6.832	545.5
284	.00000	.80000	835.00	.5350-01	.4420-01	.5200-01	.1305-02	.1076-02	.1266-02	.7730	5.553	542.3
284	.00000	.90000	836.00	.4350-01	.3570-01	.4250-01	.1052-02	.8682-03	.1034-02	.6270	4.670	538.4
284	.00000	.95000	837.00	.3510-01	.2930-01	.3570-01	.8789-03	.7258-03	.8684-03	.5250	4.050	537.0



AEDC VKF V41B-57A (OH-499) COLLATION DECK

OH-499 (AEDC V41B-57A) CRUIER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	N/HPLF R=0.3	N/HPLF R=1.0	H/REF CTAN	H/STOI BTU/R FT2SEC	H/TOI BTU/R FT2SEC	H/CTAN BTU/R FT2SEC	ODOT BTU/ FT2SEC	OTWOT DEC. R /SEC	TW DEC. R
284	32.000	.97500	939.00	.2290-01	.1300-01	.2270-01	.5094-03	.4618-03	.5532-03	.3350	2.693	532.3
284	32.000	1.0150	839.00	.2250-01	.2660-01	.3100-01	.7917-03	.6513-03	.7558-03	.4640	3.752	548.4
284	32.000	1.0300	840.00	.1445	.1169	.1379	.2500-02	.2892-02	.3358-02	2.046	15.92	553.3
284	32.000	1.0450	841.00	.2170	.1783	.2371	.5294-02	.4341-02	.5041-02	3.066	23.43	554.5
284	32.000	1.0600	842.00	.2157	.1772	.2358	.5292-02	.4314-02	.5011-02	3.046	25.00	554.7
284	180.00	.10000-01	59.000	.1735	.1481	.1735	.4371-02	.3606-02	.4371-02	2.596	19.31	540.6
284	180.00	.25000-01	60.000	.5280-01	.4350-01	.5680-01	.1285-02	.1062-02	.1285-02	.7730	5.559	532.8
284	180.00	.50000-01	61.000	.2260-01	.1980-01	.2360-01	.5543-03	.4587-03	.5543-03	.3250	2.151	529.5
284	180.00	.75000-01	62.000	.5200-02	.4300-02	.5500-02	.1280-03	.1043-03	.1280-03	.7600-01	.4900	527.9
284	180.00	.10000-00	63.000	.2500-02	.2300-02	.2500-02	.6999-04	.5712-04	.6899-04	.4200-01	.2770	527.2
284	180.00	.12500	64.000	.3400-02	.2800-02	.3400-02	.8349-04	.6915-04	.8349-04	.5100-01	.3560	526.0
284	180.00	.15000	65.000	.5900-02	.4800-02	.5500-02	.1405-03	.1164-03	.1405-03	.8500-01	.6010	526.2
284	180.00	.16000	66.000	.4120-01	.3410-01	.4120-01	.1002-02	.8294-03	.1002-02	.6070	3.409	528.6
284	180.00	.17000	67.000	.7250-01	.6030-01	.7250-01	.1766-02	.1461-02	.1766-02	1.066	5.979	530.9
284	180.00	.20000	69.000	.7700-02	.6400-02	.7700-02	.1883-03	.1560-03	.1883-03	.1150	.7160	525.8
284	180.00	.40100	72.000	.3300-02	.2700-02	.3300-02	.6074-04	.6890-04	.8074-04	.4900-01	.4220	525.5
284	180.00	.50000	73.000	.4200-02	.3500-02	.4200-02	.1033-03	.8561-04	.1033-03	.6300-01	.5390	526.2
284	180.00	.60100	74.000	.4100-02	.3400-02	.4100-02	.9895-04	.8193-04	.9895-04	.6000-01	.5000	525.8
284	180.00	.70100	75.000	.4100-02	.3400-02	.4100-02	.1009-03	.8362-04	.1009-03	.6200-01	.4950	524.9

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1823)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 5.000 SPDBRK = .0000  
SDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
298	7.980	2.023	30.07	.0000	180.0	428.8	.4500-01	1280.	93.20	1.990	3774.	.4020-04
299	7.980	2.036	30.06	.0000	180.0	430.1	.4500-01	1277.	93.00	1.996	3770.	.4042-04

RUN NUMBER	MU	4REF BTU/ R FT2SEC	ST FR R =
298	.7501-07	.3455-01	0.0175
299	.7484-07	.3459-01	.2862-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DT/DT DEG. R /SEC	TW DEG. R
298	.00000	.00000	1.0000	.7802	.6359	.6689	.2696-01	.2197-01	.2311-01	15.21	82.87	597.6
298	.00000	.50000-02	2.0000	.7434	.6042	.6077	.2569-01	.2088-01	.2100-01	14.27	96.78	596.3
298	.00000	.10000-01	3.0000	.6179	.5047	.5219	.2135-01	.1744-01	.1803-01	12.17	80.65	581.6
298	.00000	.20000-01	4.0000	.3967	.3218	.3456	.1350-01	.1112-01	.1194-01	8.053	44.67	554.6
298	.00000	.30000-01	5.0000	.2924	.2413	.2541	.1010-01	.8335-02	.9126-02	6.101	33.92	547.8
298	.00000	.40000-01	6.0000	.2446	.2021	.2241	.8453-02	.6982-02	.7742-02	5.137	28.61	544.1
298	.00000	.50000-01	7.0000	.2274	.1839	.2061	.7708-02	.6352-02	.7315-02	4.739	31.08	552.1
298	.00000	.60000-01	8.0000	.1944	.1676	.1823	.6716-02	.5537-02	.6398-02	4.038	28.02	550.6
298	.00000	.70000-01	9.0000	.1556	.1265	.1468	.5376-02	.4439-02	.5073-02	3.256	22.64	546.3
298	.00000	.80000-01	10.000	.1435	.1185	.1350	.4559-02	.4088-02	.4699-02	3.020	19.24	542.8
298	.00000	.90000-00	12.000	.1304	.1078	.1240	.4505-02	.3723-02	.4285-02	2.745	16.54	540.5
298	.00000	.10000	14.000	.1178	.9740-01	.1127	.4070-02	.3366-02	.3893-02	2.488	13.88	541.4
298	.00000	.13000	15.000	.1103	.9120-01	.1057	.3811-02	.3151-02	.3651-02	2.326	13.66	541.4
298	.00000	.14000	16.000	.1044	.8630-01	.1001	.3605-02	.2981-02	.3459-02	2.199	14.01	542.0
298	.00000	.16000	18.000	.1065	.8790-01	.1003	.3678-02	.3039-02	.3535-02	2.237	13.85	543.5
298	.00000	.17000	19.000	.1059	.8750-01	.1019	.3653-02	.3022-02	.3521-02	2.222	14.14	544.4
298	.00000	.18000	20.000	.1080	.8920-01	.1041	.3733-02	.3083-02	.3596-02	2.266	14.41	544.9
298	.00000	.19000	21.000	.9330-01	.7710-01	.9000-01	.3225-02	.2666-02	.3111-02	1.967	12.53	541.3

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1823)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(GTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
239	.00000	.20000	22.000	.9850-01	.8140-01	.9520-01	.3407-02	.1313-02	.3290-02	2.058	13.16	544.8
239	.00000	.22500	23.000	.9490-01	.7840-01	.9190-01	.3280-02	.2710-02	.3175-02	1.994	12.69	544.0
239	.00000	.25000	801.00	.8940-01	.7390-01	.8670-01	.3088-02	.2550-02	.2995-02	1.876	11.94	544.3
239	.00000	.30000	802.00	.8060-01	.6560-01	.7820-01	.2785-02	.2300-02	.2701-02	1.689	10.75	545.3
239	.00000	.35000	803.00	.8170-01	.6740-01	.7920-01	.2823-02	.2328-02	.2737-02	1.702	10.80	549.0
239	.00000	.40000	804.00	.8320-01	.6860-01	.8070-01	.2875-02	.2371-02	.2788-02	1.730	11.30	550.0
239	.00000	.45000	805.00	.7450-01	.6140-01	.7220-01	.2574-02	.2122-02	.2495-02	1.544	10.38	551.9
239	.00000	.50000	806.00	.6550-01	.5540-01	.6540-01	.2355-02	.1549-02	.2294-02	1.415	9.814	553.2
239	.00000	.55000	807.00	.6570-01	.5410-01	.6370-01	.2270-02	.1859-02	.2200-02	1.352	9.983	556.0
239	.00000	.60000	808.00	.6090-01	.5010-01	.5900-01	.2105-02	.1732-02	.2040-02	1.253	9.248	556.4
239	.00000	.65000	809.00	.5510-01	.4530-01	.5340-01	.1902-02	.1565-02	.1844-02	1.129	8.322	558.4
239	.00000	.70000	810.00	.5440-01	.4470-01	.5210-01	.1879-02	.1545-02	.1821-02	1.114	8.492	559.1
239	.00000	.75000	811.00	.5570-01	.4530-01	.5400-01	.1925-02	.1583-02	.1655-02	1.141	8.411	559.1
239	.00000	.80000	812.00	.6500-01	.5430-01	.6400-01	.2282-02	.1877-02	.2212-02	1.353	9.968	559.1
239	.00000	.85000	813.00	.6310-01	.5190-01	.6190-01	.2180-02	.1794-02	.2137-02	1.294	9.868	558.4
239	.00000	.90000	814.00	.6170-01	.5090-01	.6060-01	.2132-02	.1756-02	.2095-02	1.272	9.094	555.0
239	.00000	.92500	815.00	.5300-01	.4370-01	.5220-01	.1831-02	.1509-02	.1804-02	1.095	8.998	553.5
239	.00000	.95000	816.00	.4520-01	.3720-01	.4460-01	.1561-02	.1285-02	.1541-02	.9330	7.655	554.3
239	.00000	.97500	817.00	.3190-01	.2630-01	.3160-01	.1103-02	.0985-03	.1093-02	.6580	5.402	555.1
239	.00000	1.0150	818.00	.1447	.1194	.1437	.5000-02	.4092-02	.4965-02	2.885	21.10	574.8
239	.00000	1.0300	819.00	.3312	.2701	.3289	.1144-01	.9332-02	.1136-01	6.472	47.05	586.3
239	.00000	1.0600	821.00	.3140	.2551	.3117	.1085-01	.8813-02	.1077-01	6.012	49.21	597.6
239	.00000	1.5000	89.000	.7400-02	.6100-02	.7400-02	.2553-03	.2118-03	.2553-03	.1590	.9660	528.6
239	11.500	.20000	91.000	.2000-01	.1660-01	.2000-01	.6838-03	.5722-03	.6838-03	.4300	2.679	529.0
239	14.000	.50000-01	90.000	.6000-02	.5000-02	.6000-02	.2081-03	.1727-03	.2081-03	.1300	.7880	527.9
239	17.500	.40000	823.00	.8060-01	.6540-01	.7820-01	.2786-02	.2294-02	.2701-02	1.662	13.15	555.1
239	17.500	.50000	824.00	.7620-01	.6270-01	.7380-01	.2632-02	.2165-02	.2551-02	1.561	12.33	558.8
239	17.500	.60000	825.00	.5160-01	.4240-01	.5000-01	.1782-02	.1465-02	.1727-02	1.056	9.337	559.3
239	17.500	.70000	826.00	.6210-01	.5100-01	.6020-01	.2144-02	.1763-02	.2078-02	1.269	9.345	560.2
239	17.500	.80000	827.00	.6180-01	.5090-01	.5990-01	.2134-02	.1755-02	.2069-02	1.266	9.329	558.8
239	17.500	.90000	828.00	.5220-01	.4300-01	.5130-01	.1833-02	.1485-02	.1772-02	1.077	8.523	554.6
239	20.000	.92500	971.00	.1300	.1069	.1300	.4493-02	.3692-02	.4493-02	2.651	19.51	561.8
239	20.000	.95000	975.00	.1636	.1343	.1636	.5651-02	.4639-02	.5651-02	3.314	24.35	565.3
239	20.000	.97500	980.00	.1128	.9300-01	.1128	.3838-02	.3214-02	.3838-02	2.345	17.36	550.2
239	24.000	.20000	93.000	.1140-01	.9500-02	.1140-01	.3941-03	.3270-03	.3941-03	.2460	1.533	528.3
239	30.000	.92500	970.00	.1006	.8290-01	.1006	.3477-02	.2864-02	.3477-02	2.078	15.35	554.2
239	30.000	.95000	974.00	.1178	.9700-01	.1178	.4069-02	.3351-02	.4069-02	2.427	17.92	555.3
239	30.000	.97500	979.00	.2790-01	.2310-01	.2790-01	.9644-03	.7985-03	.9644-03	.5950	4.435	535.2
239	32.000	.83100+10	831.00	.1074	.8850-01	.1041	.3710-02	.3057-02	.3710-02	2.321	15.39	553.0
239	32.000	.832.00	832.00	.9170-01	.7540-01	.8290-01	.3169-02	.2607-02	.3722-02	1.581	13.42	558.4
239	32.000	.833.00	833.00	.7490-01	.6160-01	.7260-01	.2597-02	.2127-02	.2507-02	1.570	10.25	560.3
239	32.000	.834.00	834.00	.6550-01	.5470-01	.6450-01	.2239-02	.1889-02	.2239-02	1.378	10.35	560.8
239	32.000	.835.00	835.00	.5540-01	.4640-01	.5470-01	.1950-02	.1605-02	.1890-02	1.148	8.266	557.9

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
296	32.000	.90000	836.00	.5210-01	.4290-01	.5120-01	.1801-02	.1483-02	.1769-02	1.076	7.945	554.5
298	32.000	.95000	837.00	.5860-01	.4830-01	.5790-01	.2024-02	.1667-02	.1999-02	1.211	9.263	553.3
298	32.000	.97500	838.00	.4500-01	.3710-01	.4450-01	.1554-02	.1280-02	.1539-02	.9310	7.374	552.8
298	32.000	1.0150	839.00	.1554	.1268	.1480	.5371-02	.4383-02	.5114-02	3.050	24.22	583.9
298	32.000	1.0300	840.00	.3426	.2785	.3259	.1184-01	.9622-02	.1126-01	6.580	50.12	595.9
298	32.000	1.0450	841.00	.3976	.3226	.3780	.1374-01	.1115-01	.1306-01	7.559	56.43	601.6
298	32.000	1.0600	842.00	.3981	.2507	.2932	.1064-01	.8663-02	.1013-01	5.954	47.96	592.4
298	45.000	.92500	969.00	.1430-01	.1190-01	.1430-01	.4947-03	.4099-03	.4947-03	.3060	2.284	533.4
298	45.000	.95000	973.00	.9000-03	.7000-03	.9000-03	.3102-04	.2572-04	.3102-04	.1900-01	.1440	530.8
298	45.000	.97500	978.00	.6000-03	.5000-03	.6000-03	.2164-04	.1794-04	.2164-04	.1300-01	.1010	530.3
298	75.000	.97500	977.00	.3030-03	.2000-03	.3000-03	.1026-04	.8504-05	.1026-04	.6000-02	.4800-01	530.4
298	65.000	.97500	976.00	.6000-03	.6000-03	.8000-03	.2614-04	.2168-04	.2614-04	.1600-01	.1220	529.8
298	180.00	.10000-01	59.000	.1773	.1465	.1773	.6126-02	.5062-02	.6126-02	3.730	27.71	543.0
298	180.00	.25000-01	60.000	.4530-01	.4140-01	.4990-01	.1725-02	.1430-02	.1725-02	1.068	7.724	532.4
298	180.00	.50000-01	61.000	.2110-01	.1750-01	.2110-01	.7292-03	.6048-03	.7292-03	.4540	2.911	529.2
298	180.00	.75000-01	62.000	.1150-01	.9500-02	.1150-01	.3976-03	.3299-03	.3976-03	.2480	1.589	528.9
298	180.00	.10000+00	63.000	.9700-02	.8100-02	.9700-02	.3355-03	.2783-03	.3355-03	.2090	1.380	529.0
298	180.00	.12500	64.000	.1060-01	.8900-02	.1080-01	.3716-03	.3082-03	.3716-03	.2310	1.621	529.6
298	180.00	.15000	65.000	.1780-01	.1470-01	.1780-01	.6134-03	.5087-03	.6134-03	.3810	2.674	530.1
298	180.00	.16000	66.000	.5770-01	.4780-01	.5770-01	.1993-02	.1650-02	.1993-02	1.229	6.879	534.8
298	180.00	.17000	67.000	.8680-01	.7350-01	.8880-01	.3069-02	.2540-02	.3069-02	1.886	10.54	537.3
298	180.00	.20000	69.000	.1520-01	.1260-01	.1520-01	.5250-03	.4353-03	.5250-03	.3270	2.039	529.0
298	180.00	.40100	72.000	.8700-02	.7200-02	.8700-02	.3001-03	.2489-03	.3001-03	.1870	1.598	529.7
298	180.00	.50000	73.000	.8200-02	.6800-02	.8200-02	.2826-03	.2344-03	.2826-03	.1760	1.505	529.5
298	180.00	.60100	74.000	.6500-02	.5400-02	.6500-02	.2240-03	.1858-03	.2240-03	.1400	1.156	529.0
298	180.00	.70100	75.000	.6400-02	.5300-02	.6400-02	.2203-03	.1828-03	.2203-03	.1370	1.104	527.9

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### PARAMETRIC DATA

ALPHA =	30.00	BETA =	.0000	ELEVTR =	5.000	SPOBRK =	.0000
BDFLAP =	15.00	MACH =	8.000				

...TEST CONDITIONS...

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
322	7.990	2.963	30.02	.0000	180.0	675.5	.7000-01	134.0	97.30	3.117	3863.	.6012-04
323	7.990	2.962	30.02	.0000	180.0	677.2	.7000-01	134.3	97.50	3.125	3867.	.6015-04

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(IGTO) BTU/ R F12SEC	H(ITO) BTU/ R F12SEC	H(TAM) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWOT DEG. R /SEC	TW DEG. R
322	00000	00000	1 0000	.7753	.6310	.6639	.3380-01	.2751-01	.2894-01	19.81	106.2	620.3
322	00005	50000-02	2 0000	.7420	.6015	.6051	.3234-01	.2622-01	.2538-01	18.57	123.8	632.2
322	00010	10000-01	3 0000	.6175	.5038	.5211	.2932-01	.2196-01	.2272-01	15.99	104.3	612.3
322	00015	20000-01	4 0000	.3948	.3256	.3495	.1721-01	.1419-01	.1524-01	10.85	59.47	575.9
322	00020	30000-01	5 0000	.2885	.2385	.2610	.1259-01	.1040-01	.1138-01	8.050	44.34	566.1
322	00025	40000-01	6 0000	.2446	.2025	.2243	.1365-01	.8329-02	.9773-02	6.882	38.01	560.8
322	00030	50000-01	7 0000	.2243	.1852	.2075	.9779-02	.8075-02	.9346-02	6.211	41.36	571.2
322	00035	60000-01	8 0000	.2236	.1849	.2085	.9748-02	.8650-02	.9087-02	6.239	39.27	566.3
322	00040	70000-01	9 0000	.1914	.1581	.1796	.8342-02	.6832-02	.7830-02	5.317	36.55	569.0
322	00045	80000-01	10 0000	.1555	.1287	.1469	.6780-02	.5612-02	.6404-02	4.367	30.13	562.2
322	00050	90000-01	11 0000	.1442	.1195	.1368	.6285-02	.5210-02	.5962-02	4.080	25.80	557.1
322	00055	10000-00	12 0000	.1321	.1095	.1259	.5755-02	.4774-02	.5474-02	3.742	22.39	556.6
322	00060	12000	14 0000	.1208	.1002	.1156	.5654-02	.4363-02	.5040-02	3.445	19.12	551.8
322	00065	13000	15 0000	.1104	.9160-01	.1059	.4814-02	.3395-02	.4617-02	3.147	18.37	552.7
322	00070	14000	16 0000	.1045	.8670-01	.1004	.4557-02	.3181-02	.4376-02	2.976	18.86	553.3
322	00075	16000	18 0000	.1059	.8780-01	.1019	.4616-02	.3238-02	.4441-02	3.005	18.49	555.3
322	00080	17000	19 0000	.1044	.8650-01	.1005	.4500-02	.3772-02	.4383-02	2.956	18.70	556.5
322	00085	18000	20 0000	.1025	.8500-01	.9880-01	.4469-02	.3704-02	.4308-02	2.902	18.35	556.9
322	00090	19000	21 0000	.1029	.8530-01	.9930-01	.4484-02	.3719-02	.4329-02	2.925	18.53	553.9

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) OR31TER FUSELAGE

(RV1823)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(19T) BTU/ R FT/SEC	H(10T) BTU/ R FT/SEC	H(17A) BTU/ R FT/SEC	QDOT BTU/ FT/SEC	DTWOT DEG. R /SEC	TH DEG. R
322	.00000	.20000	22.000	.1000+00	.8230-01	.9670-01	.4359-02	.3613-02	.4213-02	2.832	17.91	556.6
322	.00000	.22500	23.000	.9390-01	.7780-01	.9330-01	.4087-02	.3389-02	.3961-02	2.661	16.84	555.2
322	.00000	.25000	801.00	.8320-01	.7330-01	.8660-01	.3687-02	.3223-02	.3773-02	2.529	16.00	555.6
322	.00000	.30000	802.00	.8250-01	.6840-01	.8020-01	.3603-02	.2983-02	.3493-02	2.333	14.75	558.2
322	.00000	.35000	803.00	.8480-01	.7200-01	.8230-01	.3596-02	.3059-02	.3587-02	2.379	15.00	562.8
322	.00000	.40000	804.00	.8180-01	.6760-01	.7930-01	.3564-02	.2948-02	.3459-02	2.287	14.84	564.5
322	.00000	.45000	805.00	.7810-01	.6290-01	.7330-01	.3316-02	.2741-02	.3217-02	2.121	14.16	566.5
322	.00000	.50000	806.00	.6390-01	.5750-01	.6390-01	.3033-02	.2507-02	.2947-02	1.936	13.32	568.0
322	.00000	.55000	807.00	.6590-01	.5440-01	.6390-01	.2870-02	.2370-02	.2784-02	1.821	13.34	571.7
322	.00000	.60000	808.00	.6430-01	.5360-01	.6390-01	.2830-02	.2336-02	.2745-02	1.794	13.13	572.5
322	.00000	.65000	809.00	.6230-01	.5130-01	.6430-01	.2714-02	.2238-02	.2632-02	1.712	12.51	575.6
322	.00000	.70000	810.00	.6730-01	.5520-01	.6430-01	.2920-02	.2406-02	.2831-02	1.833	13.84	578.3
322	.00000	.75000	811.00	.8660-01	.6840-01	.7820-01	.3514-02	.2894-02	.3477-02	2.201	16.56	579.8
322	.00000	.80000	812.00	.9940-01	.8190-01	.9640-01	.4334-02	.3570-02	.4202-02	2.715	19.81	579.8
322	.00000	.85000	813.00	.1101	.9070-01	.1080	.4801-02	.3955-02	.4708-02	3.005	22.67	580.3
322	.00000	.90000	814.00	.1123	.9260-01	.1104	.4897-02	.4037-02	.4812-02	3.084	21.81	576.4
322	.00000	.92500	815.00	.1000+00	.8260-01	.9850-01	.4359-02	.3596-02	.4294-02	2.758	22.4	573.3
322	.00000	.95000	816.00	.1009	.8320-01	.9970-01	.4397-02	.3626-02	.4344-02	2.773	22.52	575.6
322	.00000	.97500	817.00	.1074	.8550-01	.1063	.4680-02	.3857-02	.4635-02	2.939	23.84	578.3
322	.00000	1.0150	818.00	.3270	.2665	.3270	.1426-01	.1162-01	.1416-01	8.410	60.25	616.3
322	.00000	1.0300	819.00	.4004	.3252	.3976	.1745-01	.1418-01	.1733-01	10.13	72.21	626.1
322	.00000	1.0500	821.00	.3226	.2614	.3203	.1406-01	.1139-01	.1396-01	8.050	64.74	633.8
322	.00000	1.0700	83.000	.6600-02	.5500-02	.6600-02	.2894-03	.2411-03	.2894-03	1.940	1.170	537.0
322	.00000	1.0900	91.000	.2160-01	.1800-01	.2160-01	.9419-03	.7844-03	.9419-03	.6290	3.900	538.9
322	.00000	1.1100	90.000	.5200-02	.4400-02	.5200-02	.2287-03	.1906-03	.2287-03	.1530	.9260	536.3
322	.00000	1.1300	823.00	.8350-01	.6890-01	.8100-01	.3638-02	.3005-02	.3530-02	2.316	18.19	569.9
322	.00000	1.1500	824.00	.7610-01	.6440-01	.7570-01	.3403-02	.2808-02	.3301-02	2.151	16.86	574.1
322	.00000	1.1700	825.00	.5420-01	.4470-01	.5260-01	.2354-02	.1950-02	.2293-02	1.490	13.06	576.2
322	.00000	1.1900	826.00	.7160-01	.5930-01	.6930-01	.3123-02	.2573-02	.3029-02	1.957	14.28	579.9
322	.00000	1.2100	827.00	.9100-01	.7530-01	.8930-01	.3367-02	.3269-02	.3847-02	2.489	18.16	578.9
322	.00000	1.2300	828.00	.9410-01	.7760-01	.9230-01	.4100-02	.3381-02	.4030-02	2.584	20.23	576.2
322	.00000	1.2500	971.00	.1266	.1059	.1266	.5634-02	.4613-02	.5604-02	4.527	25.47	582.3
322	.00000	1.2700	972.00	.1652	.1382	.1682	.7334-02	.6026-02	.7334-02	3.497	32.87	589.0
322	.00000	1.2900	973.00	.1211	.1000+00	.1211	.5279-02	.4360-02	.5279-02	3.358	24.61	570.3
322	.00000	1.3100	974.00	.1190-01	.9900-02	.1190-01	.5192-03	.4325-03	.5192-03	3.470	2.156	537.4
322	.00000	1.3300	975.00	.1084	.8950-01	.1084	.4725-02	.3922-02	.4725-02	3.001	21.98	571.2
322	.00000	1.3500	976.00	.1297	.1059	.1297	.5555-02	.4662-02	.5555-02	3.559	25.99	577.0
322	.00000	1.3700	977.00	.3540-01	.2480-01	.3540-01	.1720-02	.1429-02	.1720-02	1.132	8.392	547.8
322	.00000	1.3900	978.00	.6630-01	.6630-01	.1040	.4673-02	.3853-02	.4534-02	2.582	20.56	567.0
322	.00000	1.4100	979.00	.9070-01	.7480-01	.8760-01	.3952-02	.3261-02	.3834-02	2.499	17.69	574.1
322	.00000	1.4300	980.00	.7830-01	.6460-01	.7600-01	.3414-02	.2814-02	.3311-02	2.144	17.69	574.1
322	.00000	1.4500	63.000	.6850-01	.5640-01	.6640-01	.2956-02	.2459-02	.2895-02	1.866	14.07	581.6
322	.00000	1.4700	835.00	.7600-01	.6260-01	.7370-01	.3315-02	.2731-02	.3214-02	2.079	14.68	579.1

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

(RV1823)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) OREITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(OTO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
322	32.000	.90000	836.00	.9040-01	.7450-01	.8880-01	.3939-02	.3972-02	2.488	18.19	574.7
322	32.000	.95000	837.00	.1036	.8550-01	.1024	.4517-02	.4462-02	2.853	21.59	574.6
322	32.000	.97500	838.00	.1021	.8420-01	.1011	.4451-02	.4409-02	2.805	21.96	576.1
322	32.000	1.0150	839.00	.3239	.2623	.3079	.1412-01	.1342-01	8.055	62.36	625.9
322	32.000	1.0300	840.00	.4204	.3394	.3993	.1833-01	.1741-01	10.30	75.61	644.4
322	32.000	1.0450	841.00	.4385	.3541	.4165	.1912-01	.1816-01	10.75	78.57	644.2
322	32.000	1.0600	842.00	.3228	.2618	.3070	.1407-01	.1338-01	8.100	64.03	630.6
322	45.000	.92500	959.00	.1850-01	.1540-01	.1660-01	.6032-03	.6032-03	.5360	3.978	544.3
322	45.000	.95000	973.00	.1200-02	.1000-02	.1200-02	.5281-04	.5281-04	.3500-01	.2620	540.3
322	45.000	.97500	978.00	.1300-02	.1100-02	.1300-02	.5562-04	.5562-04	.3700-01	.2760	540.1
322	75.000	.97500	977.00	.9000-03	.8000-03	.9000-03	.4100-04	.4100-04	.2700-01	.2030	540.3
322	85.000	.97500	976.00	.1300-02	.1100-02	.1300-02	.5800-04	.5800-04	.3900-01	.2880	539.7
322	180.00	.10000-01	59.000	.1743	.1444	.1743	.7539-02	.7539-02	4.910	36.17	560.2
322	180.00	.25000-01	60.000	.4840-01	.4020-01	.4840-01	.2109-02	.2109-02	1.397	10.04	543.9
322	180.00	.50000-01	61.000	.2090-01	.1730-01	.2090-01	.9046-03	.9046-03	.6030	3.848	539.5
322	180.00	.75000-01	62.000	.1120-01	.9300-02	.1120-01	.4655-03	.4655-03	.3250	2.078	537.5
322	180.00	1.0000+00	63.000	.9400-02	.7800-02	.9400-02	.4097-03	.4097-03	.2740	1.801	537.6
322	180.00	.12500	64.000	.1190-01	.9900-02	.1190-01	.5182-03	.5182-03	.3460	2.420	537.7
322	180.00	.15000	65.000	.2270-01	.1890-01	.2270-01	.9917-03	.9917-03	.6620	4.620	538.9
322	180.00	.16000	66.000	.7070-01	.5870-01	.7070-01	.3080-02	.3080-02	2.032	11.30	546.7
322	180.00	.17000	67.000	.9660-01	.8020-01	.9660-01	.4211-02	.4211-02	2.769	15.38	548.7
322	180.00	.27000	69.000	.1450-01	.1210-01	.1450-01	.6337-03	.6337-03	.4240	2.631	537.5
322	180.00	.40100	72.000	.1090-01	.9000-02	.1090-01	.3940-03	.3940-03	.3150	2.679	540.6
322	180.00	.50000	73.000	.6900-02	.7400-02	.6900-02	.3889-03	.3889-03	.2550	2.199	541.0
322	180.00	.60100	74.000	.6500-02	.5400-02	.6500-02	.2852-03	.2852-03	.1900	1.560	541.4
322	180.00	.70100	75.000	.6400-02	.5400-02	.6400-02	.2803-03	.2803-03	.1870	1.487	540.9

DATE 25 AUG 76

AEDC VKF V41E-57A (OH-49B) COLLATION DECK

PAGE 406

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1823)

FUSELAGE

PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
BOFLAP = .5.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	SN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL CEG.	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
306	8.000	3.755	30.05	.0000	180.0	.8800-01	1342.	97.30	3.951	3866.	.7607-04
307	8.000	3.760	30.05	.0000	180.0	.8800-01	1341.	97.20	3.952	3865.	.7614-04

RUN NUMBER	MU	LB-SEC /FT2	ST FP R =	HREF BTU/ R
306	.7831-07	.4903-01	0.0175	
307	.7825-07	.4909-01	.2097-01	

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
306	.0000	.0000	1.0000	.7678	.6235	.6564	.3769-01	.3061-01	.3222-01	21.86	116.8	628.0
306	.0000	.5000-02	2.0000	.7453	.6025	.6061	.3558-01	.2958-01	.2975-01	20.73	137.5	641.5
306	.0000	.1000-01	3.0000	.6231	.5073	.5248	.3059-01	.2490-01	.2576-01	17.98	116.9	620.3
306	.0000	.2000-01	4.0000	.3954	.3258	.3498	.1941-01	.1599-01	.1717-01	12.21	66.79	579.2
306	.0000	.3000-01	5.0000	.2936	.2393	.2618	.1421-01	.1175-01	.1285-01	9.081	49.94	569.3
306	.0000	.4000-01	6.0000	.2333	.1981	.2194	.1175-01	.9725-02	.1077-01	7.578	41.60	563.1
306	.0000	.5000-01	7.0000	.2288	.1897	.2115	.1123-01	.9265-02	.1038-01	7.104	47.21	575.6
306	.0000	.6000-01	8.0000	.2247	.1855	.2094	.1103-01	.9112-02	.1028-01	7.073	44.18	570.5
306	.0000	.7000-01	9.0000	.1950	.1610	.1830	.9574-02	.7902-02	.8983-02	6.073	41.65	571.8
306	.0000	.8000-01	10.000	.1556	.1287	.1455	.7639-02	.6317-02	.7212-02	4.900	33.72	566.7
306	.0000	.9000-01	11.000	.1436	.1185	.1352	.7050-02	.5838-02	.6524-02	4.559	28.76	561.5
306	.0000	.1000+00	12.000	.1322	.1095	.1258	.6488-02	.5373-02	.6175-02	4.198	25.06	561.0
306	.0000	.1500	14.000	.1183	.9810-01	.1132	.5807-02	.4816-02	.5558-02	3.788	20.97	555.8
306	.0000	.1300	15.000	.1139	.9440-01	.1092	.5592-02	.4636-02	.5361-02	3.640	21.20	557.1
306	.0000	.1400	16.000	.1044	.6550-01	.1002	.5123-02	.4246-02	.4918-02	3.329	21.04	558.3
306	.0000	.1500	18.000	.1055	.8750-01	.1016	.5185-02	.4295-02	.4997-02	3.357	20.60	560.8
306	.0000	.1700	19.000	.1044	.8640-01	.1005	.5125-02	.4243-02	.4935-02	3.310	20.88	562.3
306	.0000	.1800	20.000	.1021	.8450-01	.9640-01	.5011-02	.4148-02	.4829-02	3.232	20.38	563.1
306	.0000	.13.00	21.000	.1059	.8650-01	.1032	.5248-02	.4349-02	.5066-02	3.408	21.53	558.8



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AEDC VKF V41B-57A (OH-498) COLLATION CHECK

PAGE 407

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B23)

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
306	.00000	.21000	22.000	.9750-01	.8070-01	.9420-01	.4785-02	.3962-02	.4625-02	3.088	19.47	562.8
306	.00000	.22500	23.000	.9230-01	.7640-01	.8940-01	.4531-02	.3752-02	.4390-02	2.929	18.48	561.7
306	.00000	.25000	801.00	.9200-01	.7470-01	.8750-01	.4428-02	.3665-02	.4297-02	2.859	18.03	562.3
306	.00000	.33000	802.00	.8060-01	.6670-01	.7820-01	.3955-02	.3273-02	.3838-02	2.548	16.06	563.9
306	.00000	.35000	803.00	.8060-01	.7150-01	.8400-01	.4249-02	.3511-02	.4122-02	2.716	17.07	569.0
306	.00000	.40000	804.00	.8490-01	.7010-01	.8230-01	.4167-02	.3442-02	.4042-02	2.657	17.13	570.5
306	.00000	.45000	805.00	.8030-01	.6620-01	.7750-01	.3939-02	.3252-02	.3821-02	2.502	16.65	572.0
306	.00000	.50000	806.00	.7430-01	.6130-01	.7210-01	.3650-02	.3013-02	.3539-02	2.305	15.79	576.6
306	.00000	.55000	807.00	.7250-01	.6060-01	.7130-01	.3612-02	.2975-02	.3502-02	2.269	16.55	579.9
306	.00000	.60000	808.00	.7930-01	.6450-01	.7350-01	.3843-02	.3165-02	.3725-02	2.409	17.56	581.2
306	.00000	.65000	809.00	.9510-01	.7300-01	.9310-01	.4715-02	.3877-02	.4570-02	2.928	21.28	597.2
306	.00000	.70000	810.00	.1250	.1035	.1221	.6187-02	.5078-02	.5935-02	3.804	28.51	593.3
306	.00000	.75000	811.00	.1658	.1392	.1645	.8339-02	.6933-02	.8077-02	5.080	36.71	598.8
306	.00000	.80000	812.00	.2104	.1722	.2038	.1033-01	.8451-02	.1000-01	6.235	44.92	604.6
306	.00000	.85000	813.00	.2240	.1831	.2194	.1100-01	.8988-02	.1077-01	6.599	49.11	607.9
306	.00000	.90000	814.00	.2139	.1751	.2100	.1053-01	.8595-02	.1031-01	6.362	44.42	602.1
306	.00000	.92500	815.00	.1809	.1483	.1781	.8878-02	.7283-02	.8743-02	5.428	43.63	596.7
306	.00000	.95000	816.00	.1838	.1505	.1815	.9021-02	.7383-02	.8907-02	5.481	43.97	600.5
306	.00000	.97500	817.00	.1963	.1605	.1943	.9636-02	.7880-02	.9539-02	5.805	46.45	605.6
306	.00000	1.0150	818.00	.3643	.2949	.3616	.1788-01	.1448-01	.1775-01	10.21	72.43	637.0
306	.00000	1.0300	819.00	.3807	.3084	.3779	.1859-01	.1514-01	.1855-01	10.71	76.07	634.8
306	.00000	1.0600	821.00	.3102	.2506	.3079	.1523-01	.1230-01	.1512-01	8.598	68.82	643.5
306	.00000	.89100	89.000	.6200-02	.5200-02	.6200-02	.3058-03	.2555-03	.3068-03	.2050	1.240	538.4
306	.00000	.2410-01	2410-01	.2010-01	.2010-01	.2410-01	.1183-02	.9846-03	.1183-02	.7870	4.870	543.3
306	.00000	.3200-02	3200-02	.3200-02	.3200-02	.3200-02	.1913-03	.1594-03	.1913-03	.1280	.7730	539.2
306	.00000	.40900	40900	.8530-01	.7030-01	.8270-01	.4188-02	.3452-02	.4061-02	2.637	20.62	578.5
306	.00000	.824.00	824.00	.8100-01	.6670-01	.7850-01	.3975-02	.3272-02	.3854-02	2.482	19.36	583.7
306	.00000	.6480-01	6480-01	.5330-01	.5330-01	.6280-01	.3181-02	.2617-02	.3084-02	1.980	17.29	585.6
306	.00000	.1040	1040	.8530-01	.8530-01	.1007	.5104-02	.4190-02	.4946-02	3.140	22.76	592.9
306	.00000	.1724	1724	.1412	.1412	.1670	.3461-02	.6932-02	.8165-02	5.146	37.17	599.9
306	.00000	.1801	1801	.1475	.1475	.1769	.882-02	.7242-02	.8583-02	5.371	41.54	600.7
306	.00000	.1339	1339	.1039	.1039	.1338	.6570-02	.5397-02	.6570-02	4.057	29.44	599.5
306	.00000	.1805	1805	.1479	.1479	.1805	.8950-02	.7250-02	.8850-02	5.397	39.00	599.0
306	.00000	.1255	1255	.1035	.1035	.1255	.6162-02	.5082-02	.6162-02	3.892	28.44	576.5
306	.00000	.1320-01	1320-01	.1100-01	.1100-01	.1320-01	.6503-03	.5413-03	.6503-03	4.340	24.59	578.4
306	.00000	.1030	1030	.8880-01	.8880-01	.1030	.5349-02	.4409-02	.5349-02	3.363	24.59	578.4
306	.00000	.1357	1357	.1125	.1125	.1357	.6713-02	.5521-02	.6713-02	4.176	30.36	586.1
306	.00000	.4220-01	4220-01	.3500-01	.3500-01	.4220-01	.2071-02	.1720-02	.2071-02	1.362	10.08	550.5
306	.00000	.1043	1043	.8510-01	.8510-01	.1043	.5122-02	.4226-02	.4958-02	3.244	22.24	574.7
306	.00000	.83200	83200	.8840-01	.7350-01	.8670-01	.4391-02	.3514-02	.4257-02	2.745	19.34	583.0
306	.00000	.832.00	832.00	.8460-01	.6950-01	.8200-01	.4151-02	.3413-02	.4023-02	2.578	17.03	587.1
306	.00000	.9170-01	9170-01	.7520-01	.7520-01	.8680-01	.4493-02	.3694-02	.4360-02	2.770	20.77	592.4
306	.00000	.1208	1208	.9920-01	.9920-01	.1170	.5329-02	.4868-02	.5746-02	3.651	25.62	592.3

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORFIER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TU) BTU/R FT/SEC	H10TU) BTU/R FT/SEC	H1TAW) BTU/R FT/SEC	QDOT BTU/ FT/SEC	DTMDT DEG. R /SEC	TW DEG. R
306	32.000	.90000	836.00	.1497	.1230	.1471	.7351-02	.6036-02	.7220-02	4.532	32.87	591.5
306	32.000	.95000	837.00	.1537	.1345	.1616	.8035-02	.6800-02	.7935-02	4.960	37.23	590.8
306	32.000	.97500	838.00	.1691	.1387	.1674	.8301-02	.6810-02	.8219-02	5.088	39.46	595.2
306	32.000	1.0150	839.00	.3992	.3125	.3690	.1910-01	.1534-01	.1612-01	10.45	79.90	661.2
306	32.000	1.0300	840.00	.4122	.3317	.3911	.2023-01	.1628-01	.1920-01	11.20	82.87	654.8
306	32.000	1.0450	841.00	.4205	.3383	.3990	.2054-01	.1661-01	.1958-01	11.41	83.01	655.2
306	32.000	1.0600	842.00	.4228	.3410	.3967	.1585-01	.1281-01	.1506-01	8.989	70.72	640.8
306	45.000	.92500	959.00	.1610-01	.1570-01	.2010-01	.9875-03	.8204-03	.9875-03	.5510	4.820	549.1
306	45.000	.95000	960.00	.1800-02	.1520-02	.1800-02	.8674-04	.7211-04	.8574-04	.5700-01	4.260	546.1
306	45.000	.97500	972.00	.1900-02	.1630-02	.1900-02	.9507-04	.7905-04	.9507-04	.6300-01	4.670	545.8
306	75.000	.97500	977.00	.1900-02	.1630-02	.1900-02	.6495-04	.5400-04	.6495-04	.4300-01	3.190	546.1
306	95.000	.97500	978.00	.1900-02	.1630-02	.1900-02	.6495-04	.5400-04	.6495-04	.4300-01	3.190	545.5
306	180.00	.10000-01	53.000	.1731	.1434	.1731	.8497-02	.7037-02	.8497-02	5.497	40.47	561.2
306	180.00	.25000-01	60.000	.4730-01	.3940-01	.4730-01	.2324-02	.1933-02	.2324-02	1.544	11.10	543.5
306	180.00	.50000-01	61.000	.6220-01	.1690-01	.2020-01	.9922-03	.8263-02	.9922-03	.6630	4.233	539.4
306	180.00	.75000-01	62.000	.1650-01	.8820-02	.1060-01	.5192-03	.4324-03	.5192-03	.3470	2.217	538.9
306	180.00	.10000+00	63.000	.1900-02	.8300-02	.9900-02	.4877-03	.4061-03	.4877-03	.3260	2.142	539.4
306	180.00	.12500	64.000	.1900-02	.1070-01	.1290-01	.6335-03	.5274-03	.6335-03	.4230	2.947	540.9
306	180.00	.15000	65.000	.2340-01	.1950-01	.2340-01	.1149-02	.9562-03	.1149-02	.7640	5.324	543.0
306	180.00	.16500	66.000	.7700-01	.6170-01	.7430-01	.3650-02	.3030-02	.3650-02	2.394	13.28	552.2
306	180.00	.17000	67.000	.9300-01	.8220-01	.9900-01	.4660-02	.4035-02	.4660-02	3.188	17.68	552.2
306	180.00	.20000	69.000	.1570-01	.1220-01	.1470-01	.7220-03	.5010-03	.7220-03	.4810	2.980	541.9
306	180.00	.40100	72.000	.1210-01	.1010-01	.1210-01	.5953-03	.4951-03	.5953-03	.3950	3.350	544.7
306	180.00	.50000	73.000	.3830-02	.8200-02	.9830-02	.4826-03	.4014-03	.4826-03	.3200	2.715	544.8
306	180.00	.60100	74.000	.7400-02	.6200-02	.7400-02	.3634-03	.3023-03	.3634-03	.2410	1.979	544.6
306	180.00	.70100	75.000	.6500-02	.5400-02	.6500-02	.3196-03	.2659-03	.3196-03	.2120	1.687	544.5

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITTER FUSELAGE

(RV1824)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
256	7.900	.5535	40.04	.0000	180.0	111.0	.1200-01	1256.	93.20	.5390	3736.	.1111-04
257	7.900	.5540	40.06	.0000	180.0	111.0	.1200-01	1255.	93.10	.5390	3735.	.1112-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
256	.7500-07	.1792-01	0.0175
257	.7496-07	.1792-01	.5447-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
256	.00000	.00010	1.0000	.6034	.4953	.5389	.1082-01	.8879-02	.9659-02	6.225	34.48	554.9
256	.00000	.50000-02	2.0000	.7153	.5860	.5860	.1282-01	.1050-01	.1050-01	7.294	50.33	561.6
256	.00000	.10000-01	3.0000	.6421	.5265	.5328	.1151-01	.9438-02	.9550-02	6.591	44.19	557.7
256	.00000	.30000-01	5.0000	.3390	.2790	.2949	.6076-02	.5001-02	.5285-02	3.549	19.75	546.2
256	.00000	.40000-01	6.0000	.2791	.2238	.2456	.5033-02	.4120-02	.4403-02	2.932	16.32	544.8
256	.00000	.50000-01	7.0000	.2806	.2307	.2488	.5030-02	.4135-02	.4460-02	2.920	19.66	549.8
256	.00000	.60000-01	8.0000	.2880	.2359	.2571	.5162-02	.4245-02	.4609-02	3.009	19.11	547.6
256	.00000	.70000-01	9.0000	.2502	.2058	.2243	.4485-02	.3638-02	.4030-02	2.608	18.11	549.0
256	.00000	.80000-01	10.000	.2029	.1659	.1833	.3637-02	.2932-02	.3286-02	2.117	14.71	548.3
256	.00000	.90000-01	11.000	.1921	.1581	.1742	.3443-02	.2634-02	.2869-02	2.012	12.79	546.2
256	.00000	.10000+00	12.000	.1771	.1457	.1612	.3174-02	.2612-02	.2859-02	1.855	11.16	546.0
256	.00000	.12000	14.000	.1665	.1371	.1523	.2984-02	.2457-02	.2730-02	1.750	9.750	543.7
256	.00000	.13000	15.000	.1573	.1296	.1442	.2820-02	.2323-02	.2585-02	1.653	9.690	544.3
256	.00000	.14000	16.000	.1501	.1236	.1378	.2691-02	.2216-02	.2469-02	1.577	10.03	544.4
256	.00000	.16000	18.000	.1508	.1242	.1387	.2703-02	.2226-02	.2486-02	1.583	9.791	544.9
256	.00000	.17000	19.000	.1538	.1266	.1416	.2757-02	.2270-02	.2538-02	1.613	10.26	545.4
256	.00000	.18000	20.000	.1573	.1295	.1449	.2819-02	.2321-02	.2597-02	1.649	10.49	545.3
256	.00000	.19000	21.000	.1407	.1159	.1298	.2522-02	.2078-02	.2327-02	1.483	9.444	542.5
256	.00000	.20000	22.000	.1435	.1182	.1326	.2573-02	.2118-02	.2377-02	1.506	9.583	545.0

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1824)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	OTWDT DEG. R /SEC	TW DEG. R
256	.00000	.22500	23.000	.1394	.1148	.1291	.2498-02	.2057-02	.2314-02	1.465	9.322	544.1
256	.00000	.25000	801.00	.1333	.1098	.1237	.2300-02	.1968-02	.2217-02	1.401	8.917	544.2
256	.00000	.30000	822.00	.1211	.9970-01	.1124	.2171-02	.1788-02	.2014-02	1.272	8.098	544.2
256	.00000	.35000	833.00	.1257	.1035	.1166	.2253-02	.1855-02	.2090-02	1.318	8.381	545.5
256	.00000	.40000	824.00	.1233	.1015	.1144	.2210-02	.1920-02	.2051-02	1.294	8.476	544.9
256	.00000	.45000	825.00	.1081	.8890-01	.1002	.1337-02	.1594-02	.1797-02	1.131	7.622	546.7
256	.00000	.50000	825.00	.9900-01	.8150-01	.9180-01	.1774-02	.1460-02	.1646-02	1.036	7.206	546.4
256	.00000	.55000	825.00	.9630-01	.7920-01	.8930-01	.1726-02	.1420-02	.1600-02	1.006	7.455	547.6
256	.00000	.60000	826.00	.6540-01	.7030-01	.7920-01	.1531-02	.1260-02	.1420-02	8930	6.621	547.2
256	.00000	.65000	829.00	.8290-01	.6910-01	.7650-01	.1494-02	.1260-02	.1375-02	8630	6.395	548.7
256	.00000	.70000	813.00	.7780-01	.6400-01	.7210-01	.1334-02	.1146-02	.1293-02	8110	6.213	548.8
256	.00000	.75000	811.00	.7750-01	.6370-01	.7120-01	.1333-02	.1142-02	.1288-02	8080	5.985	548.8
256	.00000	.80000	812.00	.7210-01	.5930-01	.6650-01	.1252-02	.1063-02	.1198-02	7520	5.574	548.2
256	.00000	.85000	813.00	.6950-01	.5750-01	.6550-01	.1252-02	.1030-02	.1174-02	7290	5.591	548.0
256	.00000	.90000	814.00	.7332-01	.6030-01	.6650-01	.1314-02	.1081-02	.1235-02	7680	5.513	548.0
256	.00000	.95000	815.00	.4930-01	.4050-01	.4650-01	.8842-03	.7281-03	.8333-03	5180	4.274	544.4
256	.00000	.00000	816.00	.2030-01	.1670-01	.1920-01	.3636-03	.2934-03	.3436-03	2130	1.760	543.7
256	.00000	.05000	817.00	.2350-01	.1930-01	.2220-01	.4210-03	.3465-03	.3968-03	2460	2.029	545.8
256	.00000	.10150	818.00	.2050-01	.1650-01	.1950-01	.3685-03	.3024-03	.3493-03	2120	1.561	556.3
256	.00000	.10300	819.00	.1535	.1235	.1430	.2699-02	.2214-02	.2562-02	1.547	11.41	557.4
256	.00000	.10500	821.00	.2941	.2428	.2791	.5272-02	.4315-02	.5002-02	2.987	24.86	563.9
256	.00000	.15000	823.00	.5500-02	.4500-02	.5600-02	.1002-03	.8273-04	.1002-03	6000-01	.3610	534.6
256	.00000	.20000	823.00	.6000-02	.7100-02	.8600-02	.1549-03	.1280-03	.1549-03	9300-01	.5760	533.3
256	.00000	.25000	823.00	.5600-02	.8100-02	.9500-02	.1757-03	.1451-03	.1757-03	1050	.6330	534.8
256	.00000	.30000	823.00	.1170	.5620-01	.1095	.2097-02	.1725-02	.1945-02	1.219	9.676	549.1
256	.00000	.35000	823.00	.1119	.9200-01	.1037	.2005-02	.1649-02	.1859-02	1.164	9.234	549.9
256	.00000	.40000	825.00	.7530-01	.6190-01	.6980-01	.1349-02	.1109-02	.1251-02	7830	6.956	550.1
256	.00000	.45000	825.00	.8740-01	.7180-01	.8100-01	.1557-02	.1287-02	.1452-02	9080	6.718	550.9
256	.00000	.50000	827.00	.8000-01	.6590-01	.7420-01	.1434-02	.1180-02	.1330-02	8340	6.179	548.9
256	.00000	.55000	827.00	.6430-01	.5300-01	.6050-01	.1153-02	.9493-03	.1084-02	6730	5.352	545.5
256	.00000	.60000	971.00	.1444	.1185	.1444	.2668-02	.2126-02	.2568-02	1.497	11.07	551.9
256	.00000	.65000	971.00	.1819	.1453	.1819	.3680-02	.2677-02	.3260-02	1.879	13.88	554.2
256	.00000	.70000	971.00	.1227	.1010	.1227	.2153-02	.1811-02	.2199-02	1.289	9.576	543.9
256	.00000	.75000	971.00	.6700-02	.7200-02	.8700-02	.1567-03	.1295-03	.1567-03	9400-01	.5820	533.4
256	.00000	.80000	971.00	.9450-01	.7780-01	.9450-01	.1634-02	.1394-02	.1694-02	9900	7.344	546.0
256	.00000	.85000	971.00	.1210	.9360-01	.1210	.2169-02	.1785-02	.2169-02	1.268	9.404	546.0
256	.00000	.90000	971.00	.4460-01	.3680-01	.4460-01	.7994-03	.6602-03	.7934-03	4760	3.551	535.0
256	.00000	.95000	971.00	.1357	.1117	.1259	.2433-02	.2002-02	.2256-02	1.418	9.856	547.5
256	.00000	.00000	971.00	.1199	.9860-01	.1112	.2150-02	.1768-02	.2256-02	1.249	8.948	549.6
256	.00000	.05000	823.00	.1025	.8420-01	.9500-01	.1836-02	.1509-02	.1702-02	1.064	7.156	551.1
256	.00000	.10000	823.00	.8700-01	.7150-01	.8300-01	.1553-02	.1282-02	.1445-02	9050	6.934	549.8
256	.00000	.15000	823.00	.7530-01	.6240-01	.7040-01	.1350-02	.1080-02	.1261-02	7910	5.672	548.7
256	.00000	.20000	823.00	.6770-01	.5570-01	.6360-01	.1213-02	.9068-03	.1140-02	7090	5.257	546.3

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) CRIBTER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (T/W)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
256	32.000	.95000	837.00	.5400-01	.4450-01	.5100-01	.9650-03	.7955-03	.9146-03	.5660	4.348	545.3
256	32.000	.97500	838.00	.2130-01	.760-01	.2020-01	.3625-03	.3152-03	.3624-03	.2250	1.791	542.5
256	32.000	1.0150	839.00	.4040-01	.3310-01	.3660-01	.7239-03	.5934-03	.6604-03	.4140	3.325	559.1
256	32.000	1.0350	840.00	.1721	.1410	.1559	.3034-02	.2528-02	.2813-02	1.758	13.63	560.4
256	32.000	1.0450	841.00	.2315	.1938	.2113	.4151-02	.3402-02	.3787-02	2.369	18.06	559.7
256	32.000	1.0500	842.00	.2091	.1715	.1338	.3749-02	.3074-02	.3420-02	2.146	17.58	558.0
256	45.000	.92500	949.00	.1070-01	.800-02	.1070-01	.1915-03	.1531-03	.1915-03	.1140	.8520	534.1
256	45.000	.95000	973.00	.8000-03	.7000-03	.6000-03	.1530-04	.1253-04	.1520-04	.9000-02	.6600-01	532.6
256	45.000	.97500	978.00	.6000-03	.6000-03	.6000-03	.1530-04	.1373-04	.1662-04	.1000-01	.7500-01	532.0
256	65.000	.97500	978.00	.6000-03	.6000-03	.6000-03	.1005-04	.8335-05	.1005-04	.6000-02	.4500-01	531.9
256	100.00	.10000-01	59.000	.1118	.9230-01	.1118	.2004-02	.1652-02	.2004-02	1.183	8.798	540.3
256	120.00	.25000-01	60.000	.3110-01	.2570-01	.3110-01	.5575-03	.4600-03	.5575-03	.3310	2.384	537.3
256	180.00	.50000-01	61.000	.1530-01	.1260-01	.1530-01	.2743-03	.2264-03	.2743-03	.1630	1.041	536.2
256	180.00	.70000-01	63.000	.1030-01	.8330-02	.1030-01	.1938-03	.1600-03	.1938-03	.1150	.7370	535.9
256	180.00	.10000+00	63.000	.1120-01	.9200-02	.1120-01	.2006-03	.1656-03	.2006-03	.1190	.7850	535.6
256	180.00	.12500	64.000	.1640-01	.1330-01	.1640-01	.2945-03	.2432-03	.2945-03	.1750	1.226	535.3
256	180.00	.15000	65.000	.2540-01	.2100-01	.2540-01	.4555-03	.3761-03	.4555-03	.2710	1.895	535.4
256	180.00	.16000	66.000	.5670-01	.4680-01	.5670-01	.1015-02	.8333-03	.1015-02	.6030	3.371	537.0
256	180.00	.17000	67.000	.7960-01	.6570-01	.7960-01	.1428-02	.1177-02	.1428-02	.8460	4.725	537.5
256	180.00	.20000	69.000	.1540-01	.1270-01	.1540-01	.2755-03	.2276-03	.2755-03	.1640	1.021	534.4
256	180.00	.40100	72.000	.3900-02	.3200-02	.3900-02	.6562-04	.5733-04	.6562-04	.4200-01	.3550	532.8
256	180.00	.50000	73.000	.3100-02	.2500-02	.3100-02	.5477-04	.4526-04	.5477-04	.3300-01	.2800	532.8
256	180.00	.60100	74.000	.4100-02	.3400-02	.4100-02	.7355-04	.6079-04	.7355-04	.4400-01	.3640	532.4
256	180.00	.70100	75.000	.2900-02	.2400-02	.2900-02	.5213-04	.4309-04	.5213-04	.3100-01	.2500	531.8

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OH-498 (AEDC V41B-57A) CRBITER FUSELAGE

(RV1824)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 5.000 SPDRK = .0000  
 BOFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	FO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
285	7.940	1.024	40.34	.0000	180.0	210.7	.2300-01	1266.	93.00	1.000	3752.	.2044-04
287	7.940	1.017	40.04	.0000	180.0	203.9	.2300-01	1268.	93.20	.9960	3756.	.2032-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
286	.7487-07	.2444-01	.4021-01	0.3175
287	.7504-07	.2441-01	.4034-01	

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
285	.00000	.00000	1.0000	.6151	.5048	.5492	.1504-01	.1234-01	.1342-01	8.708	48.11	559.8
285	.00000	.50000-02	2.0000	.7079	.5794	.5794	.1730-01	.1416-01	.1416-01	9.879	67.95	568.1
286	.00000	.10000-01	3.0000	.6257	.5129	.5190	.1529-01	.1254-01	.1269-01	8.803	58.85	563.4
286	.00000	.30000-01	5.0000	.3358	.2767	.2324	.8208-02	.6764-02	.7147-02	4.866	27.07	546.1
286	.00000	.40000-01	6.0000	.2759	.2276	.2431	.6745-02	.5563-02	.5942-02	4.017	22.38	543.5
285	.00000	.50000-01	7.0000	.2773	.2282	.2461	.6779-02	.5579-02	.6015-02	3.987	26.83	550.8
285	.00000	.55000-01	8.0000	.2791	.2299	.2494	.6822-02	.5620-02	.6096-02	4.035	25.64	547.5
285	.00000	.70000-01	9.0000	.2437	.2006	.2192	.5538-02	.4935-02	.5357-02	3.511	24.37	549.7
285	.00000	.80000-01	10.000	.2329	.1672	.1335	.4951-02	.4083-02	.4486-02	2.939	20.43	546.6
285	.00000	.90000-01	11.000	.1901	.1568	.1725	.4648-02	.3833-02	.4220-02	2.767	17.62	543.5
286	.00000	.10000+00	12.000	.1785	.1471	.1625	.4362-02	.3596-02	.3974-02	2.530	15.59	545.2
286	.00000	.14000	14.000	.1559	.1369	.1519	.4055-02	.3346-02	.3714-02	2.422	13.50	541.7
286	.00000	.15000	15.000	.1556	.1317	.1464	.3902-02	.3219-02	.3579-02	2.328	13.66	542.3
285	.00000	.14000	16.000	.1452	.1205	.1343	.3574-02	.2949-02	.3283-02	2.132	13.58	542.6
285	.00000	.15000	18.000	.1479	.1220	.1361	.3616-02	.2982-02	.3326-02	2.153	13.33	543.5
285	.00000	.17000	19.000	.1465	.1224	.1359	.3629-02	.2992-02	.3343-02	2.159	13.74	544.1
286	.00000	.18000	20.000	.1505	.1324	.1491	.3925-02	.3236-02	.3619-02	2.334	14.86	544.2
286	.00000	.15000	21.000	.1598	.1319	.1475	.3926-02	.3233-02	.3607-02	2.335	14.88	541.2
286	.00000	.20000	22.000	.1417	.1159	.1310	.3464-02	.2857-02	.3202-02	2.763	13.13	543.4

(RV1824)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) CRBITTER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(11AN) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWOT DEG. R /SEC	TW DEG. R
285	.00000	.22500	23.000	.1329	.1097	.1232	.3249-02	.2681-02	.3012-02	1.940	12.36	542.0
285	.00000	.25000	801.00	.1313	.1083	.1219	.3210-02	.2648-02	.2991-02	1.916	12.21	542.5
285	.00000	.30000	802.00	.1222	.1008	.1135	.2988-02	.2465-02	.2774-02	1.782	11.35	545.2
285	.00000	.35000	803.00	.1184	.9750-01	.1399	.2894-02	.2335-02	.2686-02	1.718	10.93	545.7
286	.00000	.40000	804.00	.1190	.9310-01	.1104	.2908-02	.2397-02	.2699-02	1.725	11.30	547.4
286	.00000	.45000	805.00	.1114	.9180-01	.1334	.2724-02	.2244-02	.2527-02	1.611	10.86	547.7
286	.00000	.50000	806.00	.9590-01	.7990-01	.8390-01	.2358-02	.1950-02	.2197-02	1.400	9.729	549.5
286	.00000	.55000	807.00	.9130-01	.7570-01	.8330-01	.2248-02	.1850-02	.2085-02	1.325	9.812	549.5
286	.00000	.60000	808.00	.8580-01	.7070-01	.7350-01	.2098-02	.1727-02	.1946-02	1.236	9.155	551.8
286	.00000	.65000	809.00	.7910-01	.6510-01	.7349-01	.1933-02	.1591-02	.1793-02	1.135	8.398	551.8
286	.00000	.70000	810.00	.7220-01	.6270-01	.7060-01	.1662-02	.1532-02	.1727-02	1.093	8.354	551.5
286	.00000	.75000	811.00	.6440-01	.6340-01	.7323-01	.2062-02	.1697-02	.1913-02	1.211	8.952	551.2
286	.00000	.80000	812.00	.8500-01	.6930-01	.7890-01	.2077-02	.1709-02	.1926-02	1.221	9.032	550.1
286	.00000	.85000	813.00	.8040-01	.6620-01	.7543-01	.1956-02	.1618-02	.1843-02	1.158	8.865	548.8
286	.00000	.90000	814.00	.7540-01	.6210-01	.7283-01	.1842-02	.1517-02	.1732-02	1.087	7.795	547.4
286	.00000	.92500	815.00	.6660-01	.4990-01	.5713-01	.1480-02	.1219-02	.1355-02	.8750	7.213	546.8
286	.00000	.95000	816.00	.3700-01	.3950-01	.3503-01	.9044-03	.7452-03	.8548-03	.5360	4.413	549.2
286	.00000	.97500	817.00	.2580-01	.2120-01	.2443-01	.6294-03	.5182-03	.5953-03	.3710	3.055	568.3
286	.00000	1.0150	818.00	.1041	.8200-01	.9373-01	.2544-03	.2082-02	.2414-02	1.452	10.65	571.1
286	.00000	1.0300	819.00	.3404	.2783	.3223	.8320-02	.6903-02	.7891-02	4.724	34.61	578.0
286	.00000	1.0560	821.00	.3500	.2656	.3313	.8555-02	.6981-02	.8110-02	4.800	39.67	578.0
286	.00000	1.0800	823.00	.6400-02	.5300-02	.6403-02	.1571-03	.1302-03	.1571-03	.9600-01	.5830	528.0
286	.00000	1.1000	824.00	.8300-02	.7400-02	.8303-02	.2181-03	.1808-03	.2181-03	.1340	.8360	525.3
286	.00000	1.1500	825.00	.4700-02	.3900-02	.4703-02	.1143-03	.9472-04	.1143-03	.7000-01	.4240	527.5
286	.00000	1.1600	826.00	.1151	.9470-01	.1063	.2814-02	.2316-02	.2610-02	1.655	13.13	550.6
286	.00000	1.1700	827.00	.1057	.8700-01	.9811-01	.2585-02	.2126-02	.2397-02	1.515	12.00	553.0
286	.00000	1.1800	828.00	.7160-01	.5890-01	.6843-01	.1749-02	.1438-02	.1622-02	1.025	9.093	554.2
286	.00000	1.1900	829.00	.6500-01	.7070-01	.7983-01	.2103-02	.1729-02	.1950-02	1.230	9.086	551.5
286	.00000	1.2000	830.00	.7920-01	.6510-01	.7343-01	.1935-02	.1552-02	.1795-02	1.137	8.410	548.8
286	.00000	1.2100	831.00	.6400-01	.5270-01	.6023-01	.1555-02	.1283-02	.1471-02	.9240	7.332	557.1
286	.00000	1.2200	832.00	.1776	.1459	.1775	.4342-02	.3566-02	.4342-02	2.526	18.64	557.1
286	.00000	1.2300	833.00	.2219	.1822	.2213	.5423-02	.4454-02	.5423-02	3.154	23.27	557.4
286	.00000	1.2400	834.00	.1542	.1271	.1542	.3770-02	.3107-02	.3770-02	2.237	16.60	545.5
286	.00000	1.2500	835.00	.1040-01	.6800-02	.1043-01	.2538-03	.2104-03	.2538-03	.1560	.9720	525.7
286	.00000	1.2600	836.00	.1429	.1150	.1403	.3445-02	.2837-02	.3445-02	2.033	15.06	548.8
286	.00000	1.2700	837.00	.1513	.1328	.1513	.3943-02	.3247-02	.3943-02	2.328	17.25	548.5
286	.00000	1.2800	838.00	.5040-01	.4170-01	.5043-01	.1233-02	.1020-02	.1233-02	1.7480	5.532	532.0
286	.00000	1.2900	839.00	.1358	.1118	.1263	.3319-02	.2733-02	.3079-02	1.962	13.63	547.9
286	.00000	1.3000	840.00	.1153	.9480-01	.1083	.2819-02	.2318-02	.2614-02	1.653	11.83	552.5
286	.00000	1.3100	841.00	.9600-01	.7630-01	.8303-01	.2345-02	.1929-02	.2175-02	1.372	9.213	554.3
286	.00000	1.3200	842.00	.7260-01	.5370-01	.7193-01	.1837-02	.1558-02	.1758-02	1.105	8.434	556.5
286	.00000	1.3300	843.00	.7350-01	.5350-01	.6823-01	.1791-02	.1479-02	.1667-02	1.055	7.550	552.1
286	.00000	1.3400	844.00	.6670-01	.5500-01	.6273-01	.1631-02	.1343-02	.1533-02	.9640	7.141	548.2

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B24)

RUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
285	32.000	.95000	837.00	.6290-01	.5180-01	.5350-01	.1539-02	.1267-02	.1454-02	.9090	6.972	548.0
286	32.000	.97500	838.00	.3020-01	.2480-01	.2350-01	.7372-03	.6074-03	.6985-03	.4370	3.470	546.6
286	32.000	1.0150	839.00	.1255	.1025	.1143	.3067-02	.2505-02	.2793-02	1.731	13.81	574.5
286	32.000	1.0300	840.00	.3615	.2950	.3291	.8837-02	.7211-02	.8044-02	4.959	38.11	577.9
286	32.000	1.0450	841.00	.4033	.3291	.3571	.9859-02	.8044-02	.8973-02	5.532	41.78	577.9
286	32.000	1.0600	842.00	.3155	.2605	.2902	.7785-02	.6367-02	.7094-02	4.419	35.97	571.4
286	45.000	.92500	963.00	.1810-01	.1500-01	.1510-01	.4433-03	.3572-03	.4433-03	.2700	2.023	529.0
286	45.000	.95000	973.00	.1200-02	.1000-02	.1200-02	.2897-04	.2401-04	.2897-04	.1800-01	.1330	525.8
286	45.000	.97500	973.00	.1000-03	.8000-03	.1000-03	.2393-04	.1934-04	.2393-04	.1500-01	.1100	525.1
286	75.000	.97500	973.00	.1000-03	.6000	.1000-03	.1379-05	.1142-05	.1378-05	.1000-02	.6000-02	525.0
286	65.000	.97500	975.00	.6000-03	.5000-03	.6000-03	.1433-04	.1163-04	.1433-04	.9000-02	.6600-01	524.7
286	183.00	.10000-01	99.00	.1069	.8830-01	.1069	.2613-02	.2158-02	.2613-02	1.568	11.68	538.8
286	183.00	.25000-01	60.000	.2790-01	.2310-01	.2790-01	.6814-03	.5636-03	.6814-03	.4120	2.978	534.0
286	180.00	.50000-01	61.000	.1370-01	.1130-01	.1370-01	.3346-03	.2762-03	.3346-03	.2030	1.301	531.8
286	180.00	.75000-01	62.000	.1020-01	.8400-02	.1020-01	.2486-03	.2058-03	.2486-03	.1510	.9890	530.6
286	180.00	.10000-00	63.000	.1620-01	.1340-01	.1620-01	.3956-03	.3275-03	.3956-03	.2410	1.590	529.8
286	180.00	.12500	64.000	.2350-01	.1970-01	.2350-01	.5829-03	.4828-03	.5829-03	.3560	2.494	529.1
286	180.00	.15000	65.000	.3320-01	.2750-01	.3320-01	.8123-03	.6728-03	.8123-03	.4960	3.477	528.9
286	180.00	.16000	66.000	.8140-01	.6730-01	.8140-01	.1990-02	.1646-02	.1990-02	1.206	6.757	532.4
286	180.00	.17000	67.000	.9510-01	.7850-01	.9510-01	.2324-02	.1922-02	.2324-02	1.409	7.896	532.4
286	180.00	.20000	69.000	.1600-01	.1540-01	.1600-01	.4552-03	.3772-03	.4552-03	.2790	1.739	527.0
286	180.00	.40100	72.000	.3100-02	.2600-02	.3100-02	.7608-04	.6308-04	.7608-04	.4700-01	.4010	525.2
286	180.00	.50000	73.000	.4600-02	.3800-02	.4600-02	.1117-03	.9259-04	.1117-03	.6900-01	.5880	525.7
286	180.00	.60100	74.000	.4200-02	.3500-02	.4200-02	.1031-03	.8549-04	.1031-03	.6300-01	.5250	525.5
286	180.00	.70100	75.000	.3300-02	.2800-02	.3300-02	.8129-04	.6741-04	.8129-04	.5000-01	.4020	524.2



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

FUSELAGE

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 5.000 SPDBRK = .0000  
BOFLAP = 15.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	PN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
300	7.990	2.037	40.07	.0000	180.0	429.3	.4500-01	1275.	92.80	1.992	3767.	.4041-04
301	7.990	2.044	40.08	.0000	180.0	429.9	.4500-01	1275.	92.80	2.000	3768.	.4054-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR P =
300	7.990	2.037	0.0175
301	7.990	2.044	0.0175

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	4/HREF (TAW)	H1STO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	OTWDT DEG. R /SEC	TW DEG. R
300	.0000	.0000	1.0000	.5997	.4909	.3343	.2059-01	.1856-01	.1846-01	12.01	66.15	566.6
300	.0000	.5000-02	2.0000	.7350	.5757	.3757	.2436-01	.1933-01	.1989-01	13.82	94.50	580.0
300	.0000	.1000-01	3.0000	.6352	.5198	.3559	.2195-01	.1796-01	.1817-01	12.50	83.79	573.4
300	.0000	.3000-01	5.0000	.3405	.2809	.2957	.1177-01	.9705-02	.1025-01	7.058	39.24	547.6
300	.0000	.4000-01	6.0000	.2870	.2359	.2529	.9315-02	.8184-02	.8739-02	5.978	33.29	544.4
300	.0000	.5000-01	7.0000	.2763	.2274	.2452	.9516-02	.8566-02	.8470-02	5.657	37.99	554.7
300	.0000	.6000-01	8.0000	.2916	.2320	.2517	.9229-02	.8016-02	.8034-02	5.806	36.83	550.7
300	.0000	.7000-01	9.0000	.2463	.2027	.2214	.8510-02	.7005-02	.7850-02	5.049	34.97	554.1
300	.0000	.8000-01	10.0000	.1939	.1648	.1808	.6907-02	.5593-02	.6245-02	4.127	28.65	549.9
300	.0000	.9000-01	11.0000	.1500	.1559	.1726	.6555-02	.5417-02	.5961-02	3.950	25.12	545.7
300	.0000	1.0000-03	12.0000	.1148	.1443	.1593	.6241-02	.4934-02	.5505-02	3.633	21.85	546.0
300	.0000	.1000	13.0000	.1623	.1341	.1487	.5503-02	.4632-02	.5138-02	3.394	18.92	542.1
300	.0000	.1500	14.0000	.1537	.1269	.1410	.5313-02	.4136-02	.4872-02	3.207	18.81	543.3
300	.0000	.2000	15.0000	.1457	.1203	.1338	.5033-02	.4136-02	.4623-02	3.036	19.32	544.2
300	.0000	.2500	16.0000	.1528	.1261	.1406	.5279-02	.4366-02	.4853-02	3.174	9.62	546.1
300	.0000	.3000	17.0000	.1491	.1230	.1374	.5151-02	.4249-02	.4745-02	3.090	19.63	547.6
300	.0000	.3500	18.0000	.1500	.1237	.1383	.5182-02	.4273-02	.4778-02	3.105	19.72	548.2
300	.0000	.4000	19.0000	.1397	.1145	.1281	.4933-02	.3956-02	.4425-02	2.888	18.37	544.8
300	.0000	.4500	20.0000	.1419	.1170	.1311	.4901-02	.4042-02	.4530-02	2.938	18.66	548.0

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AEDC VKF V418-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V418-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/V REF R=0.9	H/HREF R=1.0	H/HREF (1AH)	H(1910) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
300	.00000	.23500	23.000	.327	.1094	.1230	.4584-02	.3781-02	.4248-02	2.752	17.49	547.1
300	.00000	.25000	25.000	.314	.1083	.1219	.4538-02	.3742-02	.4212-02	2.720	17.28	548.0
300	.00000	.30000	30.000	.1217	.1003	.1129	.4205-02	.3465-02	.3902-02	2.508	15.90	551.1
300	.00000	.35000	35.000	.1226	.1009	.1137	.4235-02	.3486-02	.3929-02	2.513	15.92	553.9
300	.00000	.40000	40.000	.1225	.1008	.1136	.4232-02	.3482-02	.3925-02	2.506	16.33	555.2
300	.00000	.45000	45.000	.1294	.1090-01	.1014	.3779-02	.3105-02	.3503-02	2.222	14.89	559.4
300	.00000	.50000	50.000	.9820-01	.6070-01	.9100-01	.3393-02	.2788-02	.3145-02	1.991	13.75	560.7
300	.00000	.55000	55.000	.9500-01	.7790-01	.8800-01	.3282-02	.2693-02	.3040-02	1.913	14.06	564.5
300	.00000	.60000	60.000	.8950-01	.7340-01	.8290-01	.3093-02	.2537-02	.2865-02	1.801	13.24	565.0
300	.00000	.65000	65.000	.8910-01	.7220-01	.8150-01	.3043-02	.2493-02	.2817-02	1.761	12.92	568.6
300	.00000	.70000	70.000	.9370-01	.7680-01	.8670-01	.3237-02	.2652-02	.2997-02	1.869	14.17	570.0
300	.00000	.75000	75.000	.1052	.8700-01	.9630-01	.3670-02	.3005-02	.3397-02	2.115	15.49	571.1
300	.00000	.80000	80.000	.1300	.1054	.1203	.4490-02	.3678-02	.4156-02	2.591	18.99	570.3
300	.00000	.85000	85.000	.1339	.1137	.1300	.4797-02	.3929-02	.4490-02	2.766	20.96	570.8
300	.00000	.90000	90.000	.1471	.1205	.1380	.5081-02	.4164-02	.4768-02	2.943	20.89	568.2
300	.00000	.95000	95.000	.1331	.1092	.1253	.4600-02	.3773-02	.4329-02	2.674	21.82	566.0
300	.00000	.97500	97.500	.1445	.1183	.1363	.4991-02	.4088-02	.4708-02	2.891	23.46	570.1
300	.00000	1.0150	101.500	.1573	.1287	.1487	.5436-02	.4446-02	.5139-02	3.113	25.30	574.7
300	.00000	1.0300	103.000	.1432	.1387	.1491	.1531-01	.1239-01	.1448-01	8.291	59.71	605.8
300	.00000	1.0500	105.000	.14614	.1379	.1465	.1594-01	.1292-01	.1508-01	8.688	62.67	602.3
300	.00000	1.0600	106.000	.3332	.2748	.3209	.1172-01	.9495-02	.1108-01	6.381	52.09	602.9
300	.00000	1.0800	108.000	.6100-02	.5100-02	.6100-02	.2106-03	.1747-03	.2106-03	.1310	79.30	527.2
300	.00000	1.1000	110.000	.8400-02	.6900-02	.8400-02	.2892-03	.2399-03	.2892-03	.1800	1.121	526.4
300	.00000	1.1200	112.000	.7900-02	.6500-02	.7900-02	.2736-03	.2270-03	.2736-03	.1700	1.031	527.1
300	.00000	1.1400	114.000	.1126	.9250-01	.1044	.3891-02	.3156-02	.3606-02	2.278	17.96	562.0
300	.00000	1.1600	116.000	.1051	.8620-01	.9740-01	.3633-02	.2977-02	.3604-02	2.104	16.54	568.1
300	.00000	1.1800	118.000	.7130-01	.5840-01	.6600-01	.2464-02	.2019-02	.2281-02	1.425	12.54	569.1
300	.00000	1.2000	120.000	.6690-01	.7930-01	.8970-01	.3348-02	.2740-02	.3098-02	1.923	14.07	573.1
300	.00000	1.2200	122.000	.1214	.9340-01	.1123	.4193-02	.3434-02	.3881-02	2.421	17.75	569.9
300	.00000	1.2400	124.000	.1292	.1059	.1212	.4462-02	.3659-02	.4187-02	2.586	20.33	567.8
300	.00000	1.2600	126.000	.1795	.1470	.1735	.6200-02	.5078-02	.6200-02	3.578	26.22	570.3
300	.00000	1.2800	128.000	.2246	.1837	.2246	.7759-02	.6347-02	.7759-02	4.447	32.53	574.2
300	.00000	1.3000	130.000	.1566	.1305	.1586	.5478-02	.4508-02	.5478-02	3.244	23.96	555.1
300	.00000	1.3200	132.000	.1150-01	.9300-02	.1150-01	.3959-03	.3293-03	.3959-03	2.460	1.538	526.6
300	.00000	1.3400	134.000	.1551	.1274	.1551	.5358-02	.4403-02	.5358-02	3.147	23.19	559.9
300	.00000	1.3600	136.000	.1741	.1429	.1741	.6014-02	.4937-02	.6014-02	3.515	25.85	563.0
300	.00000	1.3800	138.000	.1560-01	.3720-01	.1560-01	.1577-02	.1305-02	.1577-02	.9550	7.201	535.2
300	.00000	1.4000	140.000	.1341	.1103	.1244	.4634-02	.3811-02	.4255-02	2.735	18.92	557.0
300	.00000	1.4200	142.000	.1134	.9300-01	.1050	.3917-02	.3212-02	.4255-02	2.275	16.17	566.6
300	.00000	1.4400	144.000	.1010	.8270-01	.9350-01	.3489-02	.2853-02	.3230-02	2.014	13.42	570.1
300	.00000	1.4600	146.000	.1010	.7400-01	.8370-01	.3127-02	.2558-02	.2893-02	1.790	13.53	575.1
300	.00000	1.4800	148.000	.1077	.8930-01	.9970-01	.3722-02	.3048-02	.3445-02	2.147	15.23	570.5
300	.00000	1.5000	150.000	.1292	.1060	.1212	.4463-02	.3661-02	.4189-02	2.598	19.09	565.3

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 25 AUG 75

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

PAGE 417

OH-49B (AEDC V41B-57A) OFBITER FUSELAGE

(RV1824)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAU)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
300	32.000	.95000	837.00	.1492	.1224	.1408	.5155-02	.4229-02	.4865-02	3.001	22.81	565.2
300	32.000	.97500	838.00	.1575	.1230	.1489	.5440-02	.4457-02	.5145-02	3.143	24.69	569.5
300	32.000	1.0150	839.00	.4384	.3515	.3946	.1508-01	.1214-01	.1363-01	7.955	62.07	619.8
300	32.000	1.0300	840.00	.4505	.3642	.4086	.1557-01	.1258-01	.1410-01	8.362	63.25	610.2
300	32.000	1.0450	841.00	.4291	.3473	.3890	.1482-01	.1200-01	.1344-01	8.025	59.78	606.0
300	32.000	1.0500	842.00	.3166	.2589	.2894	.1101-01	.6944-02	.9997-02	6.081	48.52	594.9
300	45.000	.92500	969.00	.2640-01	.2190-01	.2640-01	.9123-03	.7555-03	.9123-03	.5600	4.183	533.3
300	45.000	.95000	973.00	.1700-02	.1403-02	.1700-02	.5712-04	.4735-04	.5712-04	.3500-01	.2640	528.7
300	45.000	.97500	974.00	.1300-02	.1100-02	.1300-02	.4510-04	.3740-04	.4510-04	.2600-01	.2090	528.7
300	75.000	.97500	977.00	.2000-03	.2000-03	.2000-03	.6649-05	.5513-05	.6649-05	.4000-02	.3100-01	528.7
300	85.000	.97500	976.00	.5000-03	.4000-03	.5000-03	.1812-04	.1503-04	.1812-04	.1100-01	.8400-01	528.2
300	180.00	.10000-01	59.000	.1034	.6550-01	.1034	.3573-02	.2959-02	.3573-02	2.190	16.34	534.4
300	180.00	.25000-01	60.000	.2650-01	.2210-01	.2650-01	.9197-03	.7625-03	.9197-03	.5690	4.117	529.1
300	180.00	.50000-01	61.000	.1310-01	.1090-01	.1310-01	.4535-03	.3761-03	.4535-03	.2810	1.801	528.6
300	180.00	.75000-01	62.000	.1290-01	.1070-01	.1290-01	.4449-03	.3699-03	.4449-03	.2750	1.765	528.8
300	180.00	.10000+00	63.000	.2190-01	.1810-01	.2190-01	.7550-03	.6259-03	.7550-03	.4660	3.078	529.7
300	180.00	.12500	64.000	.2630-01	.2190-01	.2630-01	.9083-03	.7528-03	.9083-03	.5600	3.928	530.4
300	180.00	.15000	65.000	.3570-01	.3340-01	.3570-01	.1263-02	.1051-02	.1268-02	.7820	5.482	530.6
300	180.00	.16000	66.000	.9370-01	.7760-01	.9370-01	.3239-02	.2680-02	.3239-02	1.979	11.07	535.3
300	180.00	.17000	67.000	.1105	.9140-01	.1105	.3818-02	.3159-02	.3818-02	2.331	13.03	536.7
300	180.00	.20000	69.000	.1310-01	.1180-01	.1310-01	.6597-03	.5470-03	.6597-03	.4080	2.546	528.6
300	180.00	.40100	72.000	.4900-02	.4000-02	.4900-02	.1678-03	.1352-03	.1678-03	.1040	.8910	527.7
300	180.00	.50000	73.000	.5900-02	.4900-02	.5900-02	.2025-03	.1679-03	.2025-03	.1250	1.075	528.0
300	180.00	.60100	74.000	.5500-02	.4500-02	.5500-02	.1889-03	.1566-03	.1889-03	.1170	.9700	528.1
300	180.00	.70100	75.000	.5100-02	.4200-02	.5100-02	.1751-03	.1452-03	.1751-03	.1090	.8730	526.8

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGEPAGE 41B  
(RV1B24)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 5.000 SPDRK = .0000  
BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
324	7.990	2.968	40.07	.0000	180.0	675.5	7000-01	1339.	97.20	3.117	3861.	.6018-04
325	7.990	2.975	40.10	.0000	180.0	675.5	7000-01	1337.	97.10	3.117	3858.	.6028-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT2SEC	ST FR R =
324	.7829-07			0.0175
325	.7817-07			.2355-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
324	.00000	.00000	1.0000	.5377	.4918	.5346	.2605-01	.2143-01	.2330-01	.619	88.38	583.7
324	.00000	.50000-02	2.0000	.6972	.5707	.5707	.3039-01	.2487-01	.2487-01	18.36	124.3	600.6
324	.00000	.10000-01	3.0000	.6129	.5030	.5089	.2671-01	.2192-01	.2218-01	16.37	107.9	592.3
324	.00000	.20000-01	4.0000	.4355	.3501	.3742	.1899-01	.1570-01	.1631-01	12.12	66.78	566.4
324	.00000	.30000-01	5.0000	.3379	.2799	.2953	.1473-01	.1200-01	.1287-01	9.503	52.51	559.8
324	.00000	.40000-01	6.0000	.2863	.2373	.2531	.1248-01	.1034-01	.1103-01	8.100	44.84	555.8
324	.00000	.50000-01	7.0000	.2746	.2269	.2443	.1197-01	.9889-02	.1065-01	7.615	50.77	568.8
324	.00000	.60000-01	8.0000	.2795	.2313	.2505	.1219-01	.1008-01	.1092-01	7.815	49.25	563.8
324	.00000	.70000-01	9.0000	.2735	.2028	.2211	.1070-01	.8839-02	.9638-02	6.808	46.82	568.7
324	.00000	.80000-01	10.000	.1778	.1637	.1793	.8622-02	.7134-02	.7812-02	5.536	38.17	562.9
324	.00000	.90000-01	11.000	.568	.1548	.1760	.8141-02	.6746-02	.7403-02	5.272	33.33	557.4
324	.00000	.10000-00	12.000	.1743	.1444	.1591	.7595-02	.6293-02	.6936-02	4.914	29.38	558.0
324	.00000	.12000	14.000	.1602	.1329	.1471	.6981-02	.5792-02	.6410-02	4.552	25.24	553.0
324	.00000	.13000	15.000	.1553	.1288	.1428	.6770-02	.5515-02	.6225-02	4.405	25.69	554.4
324	.00000	.14000	16.000	.1453	.1204	.1337	.6372-02	.5250-02	.5828-02	4.111	26.02	555.7
324	.00000	.15000	18.000	.1513	.1258	.1400	.5930-02	.5483-02	.6103-02	4.277	26.27	559.0
324	.00000	.16000	19.000	.1497	.1240	.1382	.6525-02	.5402-02	.6021-02	4.205	26.54	560.5
324	.00000	.17000	20.000	.1508	.1248	.1393	.6573-02	.5441-02	.6070-02	4.228	26.67	561.8
324	.00000	.18000	21.000	.1440	.1193	.1332	.6277-02	.5201-02	.5807-02	4.061	25.67	558.1



(RV1824)

CH-53B (AECC V418-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X,Y	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAP)	H(90) BTU/ R FT/SEC	H(10) BTU/ R FT/SEC	H(1A) BTU/ R FT/SEC	QDOT BTU/ FT/SEC	DTMDT SEC	TW DEG. R
324	32.000	835.00	2749	2248	2577	1198-01	9796-02	1173-01	7.189	51.78	605.1	
324	32.000	837.00	2777	2272	2618	1210-01	9902-02	1141-01	7.299	51.38	602.8	
324	32.000	838.00	2800	2285	2645	1221-01	9958-02	1153-01	7.240	55.70	611.8	
324	32.000	839.00	4645	884	4371	2112-01	1693-01	1905-01	11.42	87.27	663.9	
324	32.000	840.00	4285	3460	3680	1867-01	1508-01	1591-01	3.449	78.09	643.2	
324	32.000	841.00	4112	3324	3725	1792-01	1449-01	1623-01	10.13	74.19	639.9	
324	32.000	842.00	3188	2573	2877	1381-01	1121-01	1254-01	7.992	63.31	626.3	
324	32.000	843.00	2300-01	2410-01	2900-01	1266-01	1052-02	1226-02	8.850	6.201	544.9	
324	32.000	844.00	2300-02	1900-02	2300-02	9903-04	8244-04	9903-04	6.600-01	4.900	539.8	
324	32.000	845.00	1500-02	1200-02	1500-02	6455-04	5374-04	6455-04	4.300-01	3.200	539.3	
324	32.000	846.00	2000-03	2000-03	2000-03	1013-04	2307-04	1013-04	7.000-02	5.000-01	539.2	
324	32.000	847.00	6000-03	5000-03	6000-03	2771-04	2307-04	2771-04	1.900-01	1.370	539.1	
324	32.000	848.00	5930-01	5930-01	5930-01	1327-02	3566-02	4327-02	2.662	21.23	543.5	
324	32.000	849.00	2490-01	2490-01	2490-01	1087-02	5054-03	1297-02	7.550	5.255	537.1	
324	32.000	850.00	1290-01	1290-01	1290-01	5601-03	4667-03	1291-03	3.750	2.395	535.9	
324	32.000	851.00	1440-01	1440-01	1440-01	6225-03	5233-03	5233-03	4.200	2.585	536.7	
324	32.000	852.00	2370-01	2370-01	2370-01	1033-03	5607-03	1233-02	6.691	4.530	538.1	
324	32.000	853.00	2440-01	2440-01	2440-01	1277-02	1063-02	1277-02	4.600	5.931	539.3	
324	32.000	854.00	3330-01	3330-01	3330-01	1592-02	1301-03	1592-02	1.039	7.247	540.1	
324	32.000	855.00	3330-01	3330-01	3330-01	4093-02	3400-02	4093-02	2.690	14.96	547.7	
324	32.000	856.00	1167	5690-01	1167	5085-02	4225-02	5085-02	3.344	18.59	547.3	
324	32.000	857.00	1410-01	1410-01	1410-01	7374-03	6141-03	7374-03	4.920	3.053	538.1	
324	32.000	858.00	4900-02	4900-02	4900-02	2549-03	2123-03	2549-03	1.700	1.450	537.4	
324	32.000	859.00	6400-02	6400-02	6400-02	2370-03	2773-03	2370-03	2.220	1.889	538.5	
324	32.000	860.00	5000-02	5000-02	5000-02	2643-03	2201-03	2643-03	1.780	1.451	538.7	
324	32.000	861.00	4400-02	4400-02	4400-02	1909-03	1590-03	1909-03	1.270	1.017	538.1	

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 26 AUG 76

AEDC VKF V-18-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V-18-57A) ORBITER FUSELAGE

(RV1824)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
BOFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

P/N NUMBER	MACH	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
308	8.000	40.00	.0000	180.0	851.2	8800-01	1342.	97.20	3.952	3866.	.7510-04
309	8.000	40.06	.0000	180.0	859.3	8800-01	1345.	97.40	3.943	3869.	.7579-04

P/N NUMBER	MU	LB-SEC /FT <sup>2</sup>	ST FR R =	HREF BTU/ R FT2SEC	RN/L X10.5 /FT
308	.7829-07		0.0175		3.758
309	.7844-07		.2095-01		3.739

## \*\*\*TEST DATA\*\*\*

P/N NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	4/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
308	.00000	.00000	1.0000	.6007	.4933	.5366	.2949-01	.2422-01	.2634-01	18.17	98.86	591.5
308	.00000	.50000-02	2.0000	.7005	.5719	.5719	.3439-01	.2807-01	.2907-01	20.52	138.2	611.1
308	.00000	.10000-01	3.0000	.6222	.5093	.5153	.3055-01	.2500-01	.2530-01	18.49	121.3	602.5
308	.00000	.20000-01	4.0000	.4342	.3583	.3724	.2131-01	.1719-01	.1829-01	13.52	70.19	573.5
308	.00000	.30000-01	5.0000	.3342	.2764	.2917	.1641-01	.1357-01	.1432-01	10.52	57.95	566.6
308	.00000	.40000-01	6.0000	.2837	.2349	.2505	.1393-01	.1153-01	.1230-01	8.994	49.64	562.0
308	.00000	.50000-01	7.0000	.2718	.2241	.2414	.1334-01	.1100-01	.1185-01	8.417	55.89	577.0
308	.00000	.60000-01	8.0000	.2793	.2311	.2534	.1374-01	.1135-01	.1229-01	8.740	54.86	571.8
308	.00000	.70000-01	9.0000	.2488	.2052	.2239	.1222-01	.1007-01	.1099-01	7.765	52.76	577.1
308	.00000	.80000-01	10.000	.1999	.1643	.1801	.9765-02	.8366-02	.8640-02	6.222	42.74	570.7
308	.00000	.90000-01	11.000	.1891	.1556	.1710	.8132-02	.7638-02	.8324-02	5.935	37.38	565.0
308	.00000	.10000-00	12.000	.1775	.1468	.1619	.8713-02	.7207-02	.7950-02	5.596	33.33	565.6
308	.00000	.12000	14.000	.1613	.1336	.1480	.7320-02	.6561-02	.7266-02	5.130	28.34	560.2
308	.00000	.13000	15.000	.1526	.1264	.1402	.7494-02	.6204-02	.6894-02	4.839	28.12	562.0
308	.00000	.14000	16.000	.1419	.1174	.1305	.6955-02	.5766-02	.6407-02	4.489	28.29	563.5
308	.00000	.16000	18.000	.1535	.1270	.1414	.7538-02	.6232-02	.6943-02	4.829	29.54	567.1
308	.00000	.17000	19.000	.1490	.1231	.1374	.7316-02	.6046-02	.6746-02	4.672	29.37	569.2
308	.00000	.18000	20.000	.1501	.1240	.1385	.7369-02	.6087-02	.6798-02	4.695	29.49	570.6
308	.00000	.19000	21.000	.1516	.1254	.1401	.7443-02	.6156-02	.6880-02	4.777	30.07	566.0

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AECC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1B24)

OH-49B (AECC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(OTO) BTU/ R FT2SEC	H(ITO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
308	00000	20000	22.000	.1435	.1186	.1328	.7050-02	.5824-02	.6521-02	4.493	28.22	570.5
308	00000	22500	23.000	.1339	.1098	.1233	.5525-02	.5824-02	.6051-02	4.186	26.18	569.3
308	00000	25000	801.00	.1277	.1055	.1186	.6271-02	.5180-02	.5824-02	3.995	25.10	570.6
308	00000	30000	802.00	.1213	.1001	.1126	.5955-02	.4916-02	.5330-02	3.782	23.73	572.8
308	00000	35000	803.00	.1309	.1078	.1214	.5424-02	.5293-02	.5960-02	4.032	25.20	580.2
308	00000	40000	804.00	.1235	.1018	.1146	.5066-02	.4951-02	.5527-02	3.797	24.41	582.0
308	00000	45000	805.00	.1091	.8970-01	.1011	.5355-02	.4405-02	.4955-02	3.333	22.04	585.4
308	00000	50000	806.00	.1030	.8470-01	.9550-01	.5059-02	.4405-02	.4689-02	3.134	21.34	588.3
308	00000	55000	807.00	.1094	.8970-01	.1013	.5370-02	.4405-02	.4973-02	3.231	23.83	594.9
308	00000	60000	808.00	.1313	.1076	.1216	.5446-02	.5283-02	.5968-02	3.931	28.42	597.9
308	00000	65000	809.00	.2087	.1702	.1928	.1025-01	.8357-02	.9457-02	6.085	43.64	613.9
308	00000	70000	810.00	.3031	.2599	.2851	.1518-01	.1232-01	.1333-01	8.780	64.67	629.2
308	00000	75000	811.00	.3293	.2920	.3321	.1769-01	.1434-01	.1630-01	10.16	72.16	633.6
308	00000	80000	812.00	.3519	.2955	.3361	.1731-01	.1451-01	.1650-01	10.27	72.95	634.2
308	00000	85000	813.00	.3434	.2732	.3202	.1662-01	.1366-01	.1572-01	9.658	70.93	635.0
308	00000	90000	814.00	.3275	.2650	.3063	.1609-01	.1305-01	.1504-01	9.325	64.29	627.9
308	00000	92500	815.00	.2854	.2331	.2688	.1406-01	.1144-01	.1320-01	8.245	65.47	621.4
308	00000	95000	816.00	.2855	.2326	.2695	.1407-01	.1142-01	.1323-01	8.141	64.40	629.2
308	00000	97500	817.00	.3077	.2491	.2899	.1510-01	.1223-01	.1423-01	8.616	67.89	637.4
308	00000	1.0150	818.00	.4818	.3873	.4547	.2365-01	.1901-01	.2322-01	13.01	91.37	657.8
308	00000	1.0600	819.00	.4458	.3594	.4210	.2189-01	.1764-01	.2067-01	12.22	86.14	649.5
308	00000	1.0600	820.00	.3445	.2772	.3253	.1692-01	.1361-01	.1597-01	9.343	74.35	655.6
308	00000	1.5000	821.00	.5200-02	.4300-02	.5200-02	.2559-03	.2131-03	.2559-03	17.10	1.032	539.5
308	10.000	83.000	822.00	.8200-02	.6800-02	.8200-02	.4014-03	.3342-03	.4014-03	2.680	1.561	540.3
308	11.500	20000	91.000	.9500-02	.7300-02	.9500-02	.4677-03	.3894-03	.4677-03	3.120	1.884	540.1
308	14.000	50000	823.00	.1121	.9200-01	.1038	.5501-02	.4517-02	.5097-02	3.388	26.32	591.9
308	17.500	50000	824.00	.1062	.8700-01	.9830-01	.5213-02	.4272-02	.4626-02	3.173	24.56	599.1
308	17.500	60000	825.00	.9500-01	.8140-01	.9210-01	.1685-02	.3997-02	.4550-02	2.952	25.54	603.5
308	17.500	70000	826.00	.3711	.3007	.3420	.1822-01	.1476-01	.1679-01	10.44	74.14	634.7
308	17.500	80000	827.00	.3529	.2863	.3254	.1733-01	.1405-01	.1597-01	9.990	71.06	631.2
308	17.500	90000	828.00	.2859	.2331	.2684	.1409-01	.1144-01	.1318-01	8.183	62.49	626.9
308	20.000	92500	971.00	.1901	.1555	.1901	.9330-02	.7632-02	.9330-02	5.628	40.55	604.7
308	20.000	95000	975.00	.2519	.2054	.2519	.1237-01	.1068-01	.1237-01	7.331	52.55	615.0
308	20.000	97500	980.00	.1568	.1371	.1568	.8169-02	.6733-02	.8169-02	5.083	36.94	587.1
308	24.000	20000	93.000	.1290-01	.1070-01	.1290-01	.6739-03	.5277-03	.6739-03	4.230	2.621	540.7
308	24.000	25000	970.00	.1429	.1174	.1429	.7014-02	.5765-02	.7014-02	4.344	31.55	588.5
308	30.000	95000	974.00	.1771	.1451	.1771	.6693-02	.7123-02	.6693-02	5.294	38.26	598.8
308	30.000	97500	979.00	.5170-01	.4290-01	.5170-01	.2536-02	.2104-02	.2536-02	1.658	12.25	553.9
308	32.000	40000	83100+10	.1352	.1113	.1254	.6639-02	.5463-02	.6157-02	4.140	28.25	584.3
308	32.000	50000	832.00	.1113	.9050-01	.1022	.5415-02	.4441-02	.5015-02	3.311	23.18	596.3
308	32.000	60000	833.00	.1302	.1065	.1205	.6394-02	.5230-02	.5915-02	3.857	25.26	604.6
308	32.000	70000	834.00	.2064	.1681	.1906	.1013-01	.8352-02	.9357-02	5.962	44.12	619.5
308	32.000	80000	835.00	.3310	.2688	.3053	.1625-01	.1320-01	.1499-01	9.423	64.96	628.0





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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1825)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = 5.000 SPDRK = .0000  
BOFLAP = 22.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10 6 /FT	ALPHA DEG.	YAW DEG.	P+1 MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
258	7.900	5493	20.00	.0000	180.0	110.2	.1500-01	1257.	93.20	.5350	3737.	.1103-04
259	7.900	5495	19.99	.0000	180.0	110.5	.1500-01	1258.	93.30	.5370	3740.	.1104-04

RUN NUMBER	MU	HF F BTU R FT2SEC	ST ER R = C.G.75 5470-01 5467-01
258	LB-SEC		
259	7504-07		
259	7515-07		

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(HTO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DT/DT DEG. R /SEC	TH DEG. R
258	.0000	.0000	1.0000	.915	.7456	.7629	.1332-01	.1353-01	9.010	49.29	579.9
258	.0000	.5000-02	2.0000	.7452	.6072	.6212	.1331-01	.1110-01	7.357	50.35	578.2
258	.0000	.1000-01	3.0000	.5845	.4781	.5101	.1044-01	.0539-02	5.893	39.34	566.4
258	.0000	.3000-01	5.0000	.2322	.1910	.2185	.1147-02	.3933-02	2.417	13.43	548.1
258	.0000	.4000-01	6.0000	.1833	.1509	.1751	.3274-02	.2635-02	1.916	10.66	545.6
258	.0000	.5000-01	7.0000	.1712	.1409	.1653	.3059-02	.2515-02	1.779	11.98	549.3
258	.0000	.6000-01	8.0000	.1645	.1354	.1600	.2938-02	.2418-02	1.714	10.89	547.4
258	.0000	.7000-01	9.0000	.1419	.1167	.1391	.34-02	.2635-02	1.478	10.27	547.7
258	.0000	.8000-01	10.00	.1104	.9090-01	.1088	.1971-02	.1623-02	1.153	8.022	545.9
258	.0000	.9000-01	11.00	.1000-00	.8240-01	.9900-01	.1736-02	.1471-02	1.047	6.660	544.9
258	.0000	.1000-00	12.00	.9240-01	.7510-01	.9180-01	.1651-02	.1360-02	.9680	5.830	544.3
258	.0000	.1200	14.00	.7650-01	.6310-01	.7650-01	.1337-02	.1127-02	.8050	4.485	542.4
258	.0000	.1300	15.00	.7350-01	.6050-01	.7350-01	.1314-02	.1183-02	.7730	4.533	542.7
258	.0000	.1400	16.00	.6640-01	.5470-01	.6650-01	.1156-02	.1189-02	.6970	4.442	542.8
258	.0000	.1500	18.00	.6340-01	.5390-01	.6550-01	.1158-02	.1172-02	.6870	4.251	542.8
258	.0000	.1700	19.00	.6740-01	.5550-01	.6770-01	.1233-02	.1210-02	.7080	4.506	543.0
258	.0000	.1800	20.00	.6740-01	.5590-01	.6930-01	.1213-02	.1223-02	.7130	4.540	543.0
258	.0000	.1900	21.00	.5470-01	.4510-01	.5510-01	.1730-03	.1537-03	.5760	3.673	541.0
258	.0000	.2000	22.00	.6130-01	.5050-01	.6180-01	.1035-02	.1164-02	.6440	4.104	542.6

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(RV1825)

## OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF P=1.0	H/HREF (TAH)	H(9TO) BTU/ R FT/SEC	H(10) BTU/ R FT/SEC	H(1AH) BTU/ R FT/SEC	QDOT BTU/ FT/SEC	DTWDT DEG. R /SEC	TW DEG. R
258	32.000	.93000	837.00	.1000-01	.8300-02	.1030-01	.1789-03	.1474-03	.1841-03	.1060	.8120	540.8
258	32.000	.97500	838.00	.1080-01	.8900-02	.1120-01	.1930-03	.1536-03	.1998-03	.1140	.9090	541.5
258	32.000	1.0150	839.00	.1210-01	.1000-01	.1210-01	.2170-03	.1786-03	.2185-03	.1270	1.027	546.0
258	32.000	1.0300	840.00	.4330-01	.3580-01	.4330-01	.7778-03	.6390-03	.7761-03	.4500	3.503	552.3
258	32.000	1.0450	841.00	.9000-01	.7260-01	.6930-01	.1607-02	.1319-02	.1604-02	.9240	7.055	556.0
258	32.000	1.0600	842.00	.1216	.9980-01	.1214	.2172-02	.1782-02	.2168-02	1.247	10.22	557.0
258	45.000	.95000	973.00	.7000-03	.6000-03	.7000-03	.1270-04	.1049-04	.1270-04	.8000-02	.5700-01	534.8
258	45.000	.97500	974.00	.2700-02	.2000-02	.2700-02	.4822-04	.3983-04	.4822-04	.2900-01	.2150	534.7
258	75.000	.97500	975.00	.2500-02	.9000-02	.2500-02	.4331-04	.3518-04	.4331-04	.2600-01	.1950	534.8
258	85.000	.97500	976.00	.5300-02	.4400-02	.5300-02	.9462-04	.7814-04	.9462-04	.2000-01	.4210	534.9
258	100.000	1.00000	977.00	.2650	.2357	.2650	.5124-02	.4210-02	.5124-02	2.865	21.82	552.3
258	100.000	1.00000	978.00	.9370-01	.7300-01	.9370-01	.1727-02	.1423-02	.1727-02	1.015	7.300	542.9
258	100.000	1.00000	979.00	.4830-01	.3300-01	.4830-01	.6619-03	.5718-03	.6619-03	.5100	3.250	539.7
258	100.000	1.00000	980.00	.2540-01	.2100-01	.2540-01	.4540-03	.3745-03	.4540-03	.2690	1.716	538.7
258	100.000	1.00000	981.00	.1560-01	.1370-01	.1560-01	.2938-03	.2441-03	.2938-03	.1750	1.152	538.1
258	100.000	1.00000	982.00	.1150-01	.9300-02	.1150-01	.2060-03	.1700-03	.2060-03	.1220	.630	537.8
258	100.000	1.00000	983.00	.9000-02	.7300-02	.9000-02	.1717-03	.1418-03	.1717-03	.1020	.7130	536.7
258	100.000	1.00000	984.00	.1150-01	.1500-01	.1150-01	.3350-03	.2724-03	.3350-03	.1990	1.110	537.8
258	100.000	1.00000	985.00	.6150-01	.5090-01	.6150-01	.1101-02	.9380-03	.1101-02	.6520	3.640	537.7
258	100.000	1.00000	986.00	.2070-01	.1710-01	.2070-01	.3639-03	.3053-03	.3639-03	.2200	1.364	537.0
258	100.000	1.00000	987.00	.3900-02	.3300-02	.3900-02	.7048-04	.5821-04	.7048-04	.4200-01	.3560	534.9
258	100.000	1.00000	988.00	.7900-02	.6500-02	.7900-02	.1406-03	.1161-03	.1406-03	.8400-01	.7150	535.2
258	100.000	1.00000	989.00	.7400-02	.6100-02	.7400-02	.1324-03	.1094-03	.1324-03	.7900-01	.6510	535.1
258	100.000	1.00000	990.00	.6700-02	.5600-02	.6700-02	.1205-03	.9953-04	.1205-03	.7200-01	.5750	534.3

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1825)

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = 5 .0000  
BDFLAP = 22.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	R/V/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
275	7.940	1.020	19.97	.0000	180.0	210.8	.2300-01	1269.	93.30	1.000	3758.	.2039-04
277	7.940	1.020	19.96	.0000	180.0	209.8	.2300-01	1265.	93.00	.9960	3752.	.2036-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
275	7510-07	.2446-01	.4027-01
277	7486-07	.2439-01	.4029-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DT/DT DEG. R /SEC	TH DEG. R
275	.00000	.00000	1.0000	.8919	.7259	.7128	.2182-01	.1775-01	.1817-01	12.11	66.02	587.4
276	.00000	.50000-02	2.0000	.7428	.6048	.6189	.1817-01	.1479-01	.1514-01	10.11	68.88	586.3
276	.00000	.10000-01	3.0000	.5413	.4430	.4725	.1324-01	.1064-01	.1156-01	7.575	50.47	570.1
276	.00000	.30000-01	5.0000	.2277	.1879	.2145	.5523-02	.4597-02	.5248-02	3.341	18.62	542.6
276	.00000	.40000-01	6.0000	.1802	.1493	.1723	.4409-02	.3641-02	.4215-02	2.652	14.79	541.0
276	.00000	.50000-01	7.0000	.1636	.1350	.1580	.4002-02	.3202-02	.3855-02	2.397	16.18	543.6
276	.00000	.60000-01	8.0000	.1633	.1348	.1589	.3925-02	.3297-02	.3898-02	2.396	15.25	542.6
276	.00000	.70000-01	9.0000	.1373	.1133	.1346	.3353-02	.2771-02	.3293-02	2.014	14.03	542.8
276	.00000	.80000-01	10.000	.1081	.0830-01	.1065	.2644-02	.2185-02	.2608-02	1.595	11.13	539.4
276	.00000	.90000-01	11.000	.9340-01	.8130-01	.9740-01	.2406-02	.1935-02	.2382-02	1.456	9.301	537.3
276	.00000	.10000+00	12.000	.6740-01	.7230-01	.8930-01	.2133-02	.1768-02	.2126-02	1.294	7.819	537.4
276	.00000	.12000	14.000	.6950-01	.6560-01	.7560-01	.1651-02	.1531-02	.1849-02	1.125	6.294	534.8
276	.00000	.13000	15.000	.6950-01	.5750-01	.6950-01	.1693-02	.1406-02	.1700-02	1.032	6.079	535.0
276	.00000	.14000	16.000	.6440-01	.5330-01	.6450-01	.1576-02	.1303-02	.1579-02	.9570	6.122	534.9
276	.00000	.16000	18.000	.6610-01	.5410-01	.6540-01	.1617-02	.1337-02	.1623-02	.9820	6.107	535.0
276	.00000	.17000	19.000	.6400-01	.5300-01	.6440-01	.1567-02	.1295-02	.1575-02	.9510	6.082	535.3
276	.00000	.18000	20.000	.6400-01	.5370-01	.6530-01	.1587-02	.1312-02	.1596-02	.9640	6.164	535.0
276	.00000	.19000	21.000	.4230-01	.4060-01	.4560-01	.1265-02	.1205-02	.1214-02	.7350	4.706	532.6
276	.00000	.20000	22.000	.5320-01	.4810-01	.5670-01	.1424-02	.1178-02	.1436-02	.8650	5.534	534.7

(RV1825)

## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THE. A	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H19T01 BTU/ R FT2SEC	H1T01 BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	QDOT DEG. R /SEC	TW DEG. R
276	.00000	.22500	23.000	.5650-01	.4690-01	.5700-01	.1385-02	.1146-02	.1400-02	.8430	5.395	533.8
276	.00000	.25000	201.00	.5200-01	.4300-01	.5260-01	.1271-02	.1052-02	.1287-02	.7740	4.951	533.6
276	.00000	.30000	802.00	.4770-01	.3950-01	.4830-01	.1167-02	.9556-03	.1182-02	.7100	4.946	533.7
276	.00000	.35000	837.00	.4530-01	.4040-01	.4930-01	.1195-02	.9882-03	.1210-02	.7260	4.642	534.9
276	.00000	.40000	804.00	.4650-01	.3830-01	.4710-01	.1133-02	.9414-03	.1153-02	.6910	4.549	535.2
276	.00000	.45000	805.00	.4210-01	.3480-01	.4270-01	.1033-02	.8520-03	.1043-02	.6250	4.233	536.3
276	.00000	.50000	806.00	.3810-01	.3150-01	.3850-01	.9322-03	.7707-03	.9440-03	.5650	3.946	536.7
276	.00000	.55000	807.00	.3730-01	.3090-01	.3730-01	.6135-03	.7551-03	.8251-03	.5530	3.118	537.5
276	.00000	.60000	808.00	.3310-01	.2740-01	.3350-01	.6092-03	.6694-03	.8201-03	.4900	3.652	537.3
276	.00000	.65000	809.00	.3010-01	.2490-01	.3030-01	.7357-03	.6080-03	.7450-03	.4450	3.313	537.9
276	.00000	.70000	810.00	.2830-01	.2390-01	.2830-01	.7063-03	.5939-03	.7153-03	.4270	3.291	537.8
276	.00000	.75000	811.00	.2500-01	.2140-01	.2520-01	.6320-03	.5225-03	.6400-03	.3830	2.852	538.1
276	.00000	.80000	812.00	.2300-01	.1990-01	.2310-01	.7373-03	.6097-03	.7466-03	.3332	3.332	538.4
276	.00000	.85000	813.00	.2000-01	.1790-01	.2010-01	.6950-03	.5856-03	.7108-03	.2850	3.255	538.5
276	.00000	.90000	814.00	.1800-01	.1600-01	.1810-01	.4671-03	.3956-03	.4785-03	2.058	2.058	532.9
276	.00000	.95000	815.00	.1500-01	.1400-01	.1510-01	.2039-03	.1737-03	.2155-03	1.064	1.064	531.8
276	.00000	.00000	816.00	.1300-01	.1200-01	.1310-01	.3415-03	.2827-03	.3515-03	2.080	2.080	532.7
276	.00000	.05000	817.00	.1100-01	.1000-01	.1110-01	.4119-03	.3407-03	.4249-03	2.076	2.076	534.5
276	.00000	.10000	818.00	.9000-02	.7000-02	.9400-02	.2218-03	.1830-03	.2295-03	1.330	1.330	543.6
276	.00000	.15000	819.00	.6000-01	.4200-01	.6100-01	.1266-02	.1035-02	.1300-02	.7480	5.542	547.4
276	.00000	.20000	820.00	.5000-01	.3200-01	.5100-01	.3811-02	.3130-02	.3347-02	1.56	1.56	559.0
276	.00000	.25000	821.00	.4000-01	.2500-01	.4000-01	.4592-03	.3695-03	.4592-03	2.224	2.224	529.2
276	.00000	.30000	91.000	.3000-01	.2000-01	.3000-01	.7338-03	.6093-03	.7338-03	2.819	2.819	527.1
276	.00000	.35000	823.00	.2800-02	.1800-02	.2800-02	.8416-04	.6977-04	.8416-04	.5200-01	.5200-01	526.9
276	.00000	.40000	824.00	.3500-01	.2500-01	.3500-01	.1173-02	.9695-03	.1188-02	5.655	5.655	538.4
276	.00000	.45000	825.00	.3200-01	.2200-01	.3200-01	.1165-02	.9629-03	.1181-02	5.600	5.600	539.9
276	.00000	.50000	826.00	.2900-01	.1900-01	.2900-01	.7255-03	.6499-03	.7565-03	4.237	4.237	539.4
276	.00000	.55000	827.00	.2600-01	.1600-01	.2600-01	.8276-03	.6837-03	.8391-03	3.716	3.716	539.3
276	.00000	.60000	828.00	.2300-01	.1300-01	.2300-01	.8276-03	.6837-03	.8391-03	3.724	3.724	537.6
276	.00000	.65000	829.00	.2000-01	.1000-01	.2000-01	.4679-03	.3871-03	.4784-03	2.276	2.276	534.1
276	.00000	.70000	97.000	.1700-01	.0700-01	.1700-01	.6785-03	.5613-03	.6785-03	3.073	3.073	535.4
276	.00000	.75000	97.000	.1400-01	.0400-01	.1400-01	.9368-03	.7745-03	.9368-03	4.227	4.227	537.0
276	.00000	.80000	97.000	.1100-01	.0100-01	.1100-01	.3700-03	.3063-03	.3700-03	1.685	1.685	532.8
276	.00000	.85000	97.000	.0800-01	.0000-01	.0800-01	.8452-03	.7025-03	.8452-03	3.243	3.243	527.6
276	.00000	.90000	97.000	.0500-01	.0000-01	.0500-01	.5815-03	.4813-03	.5815-03	1.796	1.796	532.2
276	.00000	.95000	97.000	.0200-01	.0000-01	.0200-01	.1813-03	.1501-03	.1813-03	2.649	2.649	532.5
276	.00000	.00000	97.000	.0000-02	.0000-02	.0000-02	.1813-03	.1501-03	.1813-03	.8300	.8300	530.1
276	.00000	.05000	97.000	.0000-01	.0000-01	.0000-01	.1715-02	.1417-02	.1715-02	7.225	7.225	538.9
276	.00000	.10000	829.00	.0000-01	.0000-01	.0000-01	.1471-02	.1215-02	.1471-02	6.371	6.371	540.9
276	.00000	.15000	830.00	.0000-01	.0000-01	.0000-01	.1307-02	.1079-02	.1307-02	5.315	5.315	540.9
276	.00000	.20000	831.00	.0000-01	.0000-01	.0000-01	.1072-02	.8858-03	.1072-02	4.981	4.981	539.2
276	.00000	.25000	832.00	.0000-01	.0000-01	.0000-01	.8850-03	.7322-03	.8850-03	3.861	3.861	538.0
276	.00000	.30000	833.00	.0000-01	.0000-01	.0000-01	.6313-03	.5221-03	.6468-03	2.860	2.860	535.1

DATE 25 AUG 76

AEDC VKF V41B-57A (CH-49B) COLLATION DECK

PAR. 429

(RV1825)

CH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(970) BTU/R FT/SEC	H(101) BTU/R FT/SEC	H(141) BTU/R FT/SEC	QDOT BTU/ FT/SEC	DTWDT DEG. R /SEC	TW DEG. R
276	32.000	.95000	837.00	.8500-02	.7100-02	.8900-02	.2095-03	.1726-03	.2146-03	.1270	.9810	533.5
276	32.000	.97500	838.00	.1000-01	.9000-02	.1120-01	.2655-03	.2206-03	.2749-03	.1630	1.301	532.6
276	32.000	1.01500	839.00	.1500-01	.1330-01	.1620-01	.3351-03	.3266-03	.3953-03	.2360	1.912	546.1
276	32.000	1.03000	840.00	.7300-01	.5900-01	.7250-01	.1775-02	.1462-02	.1773-02	1.049	8.163	552.1
276	32.000	1.04500	841.00	.1400	.1153	.1400	.5432-02	.2821-02	.3425-02	2.010	15.34	556.9
276	32.000	1.06000	842.00	.1715	.1409	.1711	.4195-02	.3446-02	.4187-02	2.449	20.06	558.7
276	45.000	.92500	959.00	.8000-03	.6000-03	.8000-03	.1647-04	.1532-04	.1847-04	.1100-01	.8500-01	527.1
276	45.000	.95000	973.00	.1600-02	.1300-02	.1600-02	.3799-04	.3151-04	.3793-04	.2300-01	.1760	525.5
276	45.000	.97500	978.00	.3200-02	.3100-02	.3800-02	.9273-04	.7594-04	.9278-04	.5700-01	.4290	525.7
276	75.000	.97500	977.00	.3500-02	.3000-02	.3500-02	.8999-04	.7380-04	.8939-04	.5500-01	.4110	525.8
276	85.000	.97500	976.00	.6100-02	.5100-02	.6100-02	.1504-03	.1247-03	.1504-03	.9300-01	.1690	525.8
276	180.00	1.00000	531.00	.2600	.2309	.2804	.6260-02	.5547-02	.6850-02	4.055	30.01	551.3
276	180.00	.96000	60.000	.9300-01	.7700-01	.9300-01	.2281-02	.1885-02	.2281-02	1.331	9.953	536.9
276	180.00	.97500	61.000	.4400-01	.3600-01	.4400-01	.1099-02	.9019-03	.1089-02	.6650	4.259	532.0
276	180.00	.75000	62.000	.2300-01	.1900-01	.2300-01	.5799-03	.4768-03	.5792-03	.3550	2.276	529.7
276	180.00	1.00000	63.000	.1400-01	.1100-01	.1400-01	.3454-03	.2862-03	.3454-03	.2120	1.400	528.6
276	180.00	.12000	64.000	.9400-02	.7500-02	.9400-02	.2300-03	.1914-03	.2300-03	.1420	.9970	527.5
276	180.00	.15000	65.000	.6400-02	.5300-02	.6400-02	.1563-03	.1295-03	.1563-03	.9500-01	.6760	526.4
276	180.00	.15000	66.000	.1900-01	.1600-01	.1900-01	.4822-03	.3997-03	.4822-03	.2970	1.665	527.6
276	180.00	.17000	67.000	.6500-01	.6200-01	.6200-01	.1536-02	.1272-02	.1536-02	.9390	5.266	531.0
276	180.00	.20000	69.000	.1900-01	.1500-01	.1900-01	.4653-03	.3658-03	.4653-03	.2870	1.750	526.5
276	180.00	.40100	72.000	.6800-02	.5700-02	.6800-02	.1674-03	.1389-03	.1674-03	.1030	.8860	525.8
276	180.00	.50000	73.000	.9500-02	.7800-02	.9500-02	.2314-03	.1919-03	.2314-03	.1430	1.223	526.2
276	180.00	.60100	74.000	.1000-01	.8500-02	.1000-01	.2505-03	.2078-03	.2506-03	.1540	1.283	525.9
276	180.00	.70100	75.000	.8000-02	.6600-02	.8000-02	.1947-03	.1615-03	.1947-03	.1200	.9670	525.4

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 5.000 SPDBRK = .0000  
BOFLAP = 22.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	U DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
260	7.900	.5436	30.05	.0000	180.0	.09.4	.1200-01	1259.	93.40	.5310	3741.	.1093-04
261	7.900	.5415	25.59	.0000	180.0	109.0	.1200-01	1259.	93.40	.5290	3741.	.1088-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	ST FR P =
260	7519-07	.1780-01	0.0175
261	7520-07	.1777-01	.5497-01
			5507-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	4(GT0) BTU/ R FT2SEC	H(TG) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
260	.00000	.00000	1.0000	.7693	.6281	.6502	.1368-01	.1116-01	.1175-01	7.715	42.43	569.2
260	.00000	.50000-02	2.0000	.7525	.6142	.6177	.1340-01	.1093-01	.1100-01	7.495	51.41	573.8
260	.00000	.10000-01	3.0000	.6184	.5560	.5231	.1101-01	.9008-02	.9313-02	6.241	41.67	566.3
260	.00000	.30000-01	5.0000	.2939	.2467	.2705	.5339-02	.4392-02	.4816-02	3.118	17.32	549.3
260	.00000	.40000-01	6.0000	.2387	.1364	.2182	.4249-02	.3497-02	.3885-02	2.485	13.81	548.4
260	.00000	.50000	7.0000	.2262	.1859	.2088	.4027-02	.3309-02	.3717-02	2.337	15.71	553.0
260	.00000	.60000	8.0000	.2312	.1901	.2150	.4116-02	.3384-02	.3828-02	2.397	15.21	550.8
260	.00000	.70000	9.0000	.1978	.1635	.1853	.3521-02	.2895-02	.3299-02	2.049	14.22	551.2
260	.00000	.80000	10.000	.1566	.1299	.1476	.2789-02	.2294-02	.2628-02	1.630	11.32	548.6
260	.00000	.90000	11.000	.1491	.1227	.1411	.2654-02	.2195-02	.2512-02	1.557	9.896	546.6
260	.00000	1.0000	12.000	.1335	.1100	.1270	.2379-02	.1953-02	.2261-02	1.397	8.401	546.1
260	.00000	1.2000	14.000	.1171	.9693-01	.1119	.2084-02	.1717-02	.1952-02	1.227	6.833	544.5
260	.00000	1.3000	15.000	.1133	.9330-01	.1084	.2016-02	.1661-02	.1930-02	1.187	6.954	544.8
260	.00000	1.4000	16.000	.1076	.8930-01	.1032	.1916-02	.1579-02	.1837-02	1.127	7.173	544.9
260	.00000	1.6000	18.000	.1032	.8493-01	.1049	.1944-02	.1601-02	.1867-02	1.144	7.074	544.9
260	.00000	1.7000	19.000	.1066	.8363-01	.1045	.1934-02	.1593-02	.1830-02	1.137	7.233	545.2
260	.00000	1.8000	20.000	.1055	.8030-01	.1055	.1950-02	.1606-02	.1877-02	1.147	7.300	544.9
260	.00000	1.9000	21.000	.9030-01	.7490-01	.8760-01	.1618-02	.1333-02	.1560-02	.9540	6.076	543.5
260	.00000	2.0000	22.000	.1007	.5270-01	.9720-01	.1793-02	.1477-02	.1730-02	1.055	6.715	544.6

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



REF ID: A66574 COLLATION DECK

CH-43 (AECG V41B-57A) ORBITER FUSELAGE

[illegible]

DATE 25 AUG 76  
AEDC VKF V418-57A (OH-498) COLLATION DECK  
OH-498 (AEDC V418-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(10) BTU/R FTSEC	H(TAN) BTU/R FTSEC	QDCT BTU/ FTSEC	DTWOT DEG. R /SEC	TW DEG. R
260	32.000	95000	637.00	1.10-01	1200.01	1470-01	267-03	261-03	1570	1.207	540.7
260	32.000	97500	638.00	1.10-01	1600-01	1900-01	345-03	345-03	2050	1.635	539.1
260	32.000	10000	639.00	1.10-01	2500-01	3000-01	560-03	560-03	3290	2.653	547.0
260	32.000	10300	640.00	1.10-01	1118	1300	2-20-02	1031-02	1335	10.83	559.3
260	32.000	10450	641.00	1.10-01	2111	2456	465-02	375-02	2.617	19.92	562.7
260	32.000	10600	642.00	1.10-01	2197	2654	473-02	46-0-02	2.719	22.22	563.2
260	45.000	95000	643.00	1.10-02	2800-02	2700-02	4731-04	4731-04	2800-01	2.120	534.1
260	45.000	97500	644.00	1.10-02	2800-02	2800-02	3747-05	3447-05	2000-02	1.500-01	533.9
260	45.000	10000	645.00	1.10-02	3000-02	3000-02	512-05	512-05	5000-02	4.100-01	533.4
260	45.000	10300	646.00	1.10-02	3000-02	4000-02	7317-05	7317-05	4000-02	3.500-01	533.5
260	45.000	10450	647.00	1.10-02	3000-02	1100-02	163-04	163-04	1200-01	1.800-01	533.4
260	45.000	10600	648.00	1.10-02	3000-02	1100-02	2725-02	2725-02	1.640	1.433	548.1
260	60.000	95000	649.00	1.10-01	3000-01	5300-01	345-03	345-03	1.600	1.027	541.2
260	60.000	97500	650.00	1.10-01	3000-01	2500-01	345-03	345-03	2650	1.693	539.2
260	60.000	10000	651.00	1.10-01	1400-01	1400-01	2500-03	2500-03	1490	9.500	538.2
260	60.000	10300	652.00	1.10-01	1400-01	1400-01	1491-03	1491-03	1080	70.0	537.4
260	60.000	10450	653.00	1.10-02	8000-02	8000-02	1531-03	1531-03	9500-01	1.630	535.5
260	60.000	10600	654.00	1.10-02	8000-02	9700-02	1723-03	1723-03	1030	7.190	537.4
260	60.000	10750	655.00	1.10-01	2000-01	2500-01	447-03	447-03	2670	1.490	537.4
260	60.000	10900	656.00	1.10-01	5100-01	6100-01	1100-02	1100-02	6530	3.646	533.4
260	60.000	11050	657.00	1.10-01	1200-01	1200-01	2752-03	2752-03	1640	1.020	536.6
260	60.000	11200	658.00	1.10-02	4900-02	4900-02	804-04	804-04	5300-01	1.4500	534.8
260	60.000	11350	659.00	1.10-02	4200-02	5100-02	9015-04	9015-04	5400-01	4.600	535.1
260	60.000	11500	660.00	1.10-02	4200-02	5700-02	1008-03	1008-03	6000-01	4.980	534.9
260	60.000	11650	661.00	1.10-02	4900-02	5900-02	1059-03	1059-03	6300-01	5.080	534.2
260	180.000	70100	75.00	1.10-02	4900-02	5900-02	8749-04	8749-04	6300-01	5.080	534.2

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AEDC VKF V41B-57A (CH-49B) COLLATION DECK

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FUSELAGE

OH-49B (AEDC V41B-57A) REITER FUSELAGE

(RV1B26)

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 5.000 SPDRBK = .0000  
 BOFLAP = 22.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	PN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
278	7.940	1.017	30.03	.0000	180.0	208.5	.2200-01	1263.	92.80	.9900	3748.	.2027-04
279	7.940	1.023	30.01	.0000	180.0	209.5	.2300-01	1262.	92.80	.9940	3747.	.2038-04

RUN NUMBER	MU	LB-SFC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
273	7473-07		2431-01	0.0175
279	7467-07		2436-01	.4026-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(1TAW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWDT DEG. R /SEC	TH DEG. R
278	.00000	.00000	1.0000	.7803	.6377	.6703	.1897-01	.1550-01	.1629-01	10.71	58.80	572.3
278	.00000	.50000-02	2.0000	.7471	.6094	.6129	.1816-01	.1481-01	.1490-01	10.15	69.47	578.0
278	.00000	.10000-01	3.0000	.6384	.5224	.5401	.1552-01	.1270-01	.1313-01	8.834	58.94	567.6
278	.00000	.20000-01	4.0000	.3052	.2513	.2700	.7418-02	.6110 02	.6562-02	4.376	24.34	547.0
278	.00000	.30000-01	5.0000	.2944	.2127	.2659	.7157-02	.5900-02	.6463-02	4.243	23.63	544.0
278	.00000	.40000-01	6.0000	.3382	.1956	.2181	.5791-02	.4779-02	.5302-02	3.452	19.26	540.8
278	.00000	.50000-01	7.0000	.2290	.1887	.2116	.5567-02	.4536-02	.5145-02	3.288	22.17	546.4
278	.00000	.60000-01	8.0000	.2264	.1857	.2103	.5503-02	.4537-02	.5124-02	3.285	20.79	543.5
278	.00000	.70000-01	9.0000	.1916	.1579	.1797	.4657-02	.3838-02	.4367-02	2.758	19.19	544.8
278	.00000	.80000-01	10.000	.1545	.1274	.1457	.3756-02	.3097-02	.3543-02	2.231	15.54	542.9
278	.00000	.90000-01	11.000	.1445	.1193	.1369	.3514-02	.2900-02	.3328-02	2.098	13.38	539.9
278	.00000	.10000-00	12.000	.1307	.1079	.1243	.3179-02	.2624-02	.3023-02	1.899	11.46	539.3
278	.00000	.12000	14.000	.1142	.9440-01	.1092	.2777-02	.2294-02	.2655-02	1.669	9.331	536.0
278	.00000	.13000	15.000	.1121	.9260-01	.1074	.2725-02	.2252-02	.2611-02	1.636	9.529	536.5
278	.00000	.14000	16.000	.1044	.8620-01	.1001	.2538-02	.2097-02	.2434-02	1.523	9.733	536.6
278	.00000	.15000	18.000	.1033	.8000-01	.1048	.2530-02	.2189-02	.2547-02	1.589	9.869	537.1
278	.00000	.16000	19.000	.1053	.8583-01	.1012	.2556-02	.2111-02	.2460-02	1.532	9.786	537.4
278	.00000	.17000	20.000	.1093	.8340-01	.1043	.2632-02	.2174-02	.2436-02	1.578	10.07	537.6
278	.00000	.18000	21.000	.9780-01	.8080-01	.9430-01	.2376-02	.1964-02	.2293-02	1.431	9.154	534.6

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1826)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(970) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QOOT BTU/ R FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
278	.00000	.20000	22.000	.9960-01	.8230-01	.9620-01	.2421-02	.2000-02	.2339-02	1.453	9.279	537.0
278	.00000	.22500	23.000	.9490-01	.7850-01	.9200-01	.2308-02	.1907-02	.2235-02	1.387	8.868	535.8
278	.00000	.25000	801.00	.9080-01	.7510-01	.8810-01	.2208-02	.1825-02	.2142-02	1.328	8.487	535.6
278	.00000	.30000	802.00	.7940-01	.6560-01	.7700-01	.1930-02	.1595-02	.1873-02	1.159	7.402	536.7
278	.00000	.35000	803.00	.9280-01	.6840-01	.8030-01	.2013-02	.1662-02	.1953-02	1.204	7.683	538.9
278	.00000	.40000	804.00	.8280-01	.6840-01	.8030-01	.2013-02	.1662-02	.1953-02	1.203	7.903	539.1
278	.00000	.45000	805.00	.7210-01	.5950-01	.6990-01	.1753-02	.1447-02	.1700-02	1.046	7.074	540.2
278	.00000	.50000	806.00	.6870-01	.5670-01	.6660-01	.1670-02	.1378-02	.1620-02	.9960	6.943	540.7
278	.00000	.55000	807.00	.6700-01	.5530-01	.6500-01	.1629-02	.1344-02	.1580-02	.9960	7.204	542.0
278	.00000	.60000	808.00	.6060-01	.5000-01	.5870-01	.1472-02	.1214-02	.1428-02	.8760	6.512	541.9
278	.00000	.65000	809.00	.5700-01	.4700-01	.5530-01	.1386-02	.1143-02	.1344-02	.8230	6.115	543.1
278	.00000	.70000	810.00	.5480-01	.4520-01	.5320-01	.1332-02	.1099-02	.1292-02	.7910	6.081	543.1
278	.00000	.75000	811.00	.5230-01	.4310-01	.5070-01	.1270-02	.1048-02	.1232-02	.7550	5.611	542.5
278	.00000	.80000	812.00	.5750-01	.4740-01	.5580-01	.1397-02	.1153-02	.1355-02	.6310	6.175	542.4
278	.00000	.85000	813.00	.5290-01	.4360-01	.5150-01	.1286-02	.1061-02	.1261-02	.7660	5.894	541.2
278	.00000	.90000	814.00	.4700-01	.3880-01	.4620-01	.1142-02	.9425-03	.1122-02	.6830	4.922	538.6
278	.00000	.92500	815.00	.1440-01	.1190-01	.1420-01	.3507-03	.2898-03	.3456-03	.2110	1.747	535.7
278	.00000	.95000	816.00	.2040-01	.1680-01	.2010-01	.4950-03	.4090-03	.4891-03	.2980	2.465	535.9
278	.00000	.97500	817.00	.2750-01	.2270-01	.2730-01	.6687-03	.5523-03	.6624-03	.4010	3.317	537.7
278	.00000	1.0150	818.00	.2490-01	.2040-01	.2470-01	.6046-03	.4970-03	.6006-03	.3530	2.606	553.7
278	.00000	1.0360	819.00	.1719	.1412	.1708	.4180-02	.3431-02	.4152-02	2.421	17.66	557.7
278	.00000	1.0600	821.00	.4074	.3320	.4046	.9904-02	.8071-02	.9835-02	5.509	45.47	580.7
278	.00000	1.5000	89.000	.7000-02	.5800-02	.7000-02	.1706-03	.1412-03	.1706-03	1040	6.300	528.2
278	.00000	2.0000	91.000	.1440-01	.1190-01	.1440-01	.3501-03	.2901-03	.3501-03	.2140	1.335	526.2
278	.00000	5.0000-01	90.000	.9100-02	.7500-02	.9100-02	.2212-03	.1833-03	.2212-03	.1350	.8200	526.7
278	.00000	4.0000	823.00	.8080-01	.6670-01	.7840-01	.1965-02	.1621-02	.1906-02	1.169	9.310	542.0
278	.00000	5.0000	824.00	.7710-01	.6350-01	.7470-01	.1874-02	.1544-02	.1817-02	1.111	8.837	544.1
278	.00000	6.0000	825.00	.5110-01	.4210-01	.4960-01	.1243-02	.1024-02	.1205-02	.7360	6.559	544.5
278	.00000	7.0000	826.00	.6040-01	.4980-01	.5950-01	.1467-02	.1210-02	.1423-02	.8700	6.457	544.2
278	.00000	8.0000	827.00	.5760-01	.4750-01	.5590-01	.1401-02	.1156-02	.1359-02	.8330	6.190	542.5
278	.00000	9.0000	828.00	.4350-01	.3590-01	.4280-01	.1057-02	.8730-03	.1039-02	.6320	5.043	539.1
278	.00000	9.2500	971.00	.9360-01	.7730-01	.9380-01	.2280-02	.1879-02	.2280-02	1.350	10.02	545.0
278	.00000	9.5000	975.00	.1139	.9380-01	.1139	.2768-02	.2280-02	.2768-02	1.636	12.13	546.0
278	.00000	9.7500	980.00	.4650-01	.3850-01	.4650-01	.1131-02	.9351-03	.1131-02	.6810	5.082	534.9
278	.00000	2.0000	93.000	.1100-01	.9100-02	.1100-01	.2667-03	.2210-03	.2667-03	.1630	1.019	525.5
278	.00000	3.0000	974.00	.7050-01	.5820-01	.6470-01	.1713-02	.1414-02	.1713-02	1.025	7.630	538.4
278	.00000	4.0000	979.00	.1590-01	.1320-01	.1590-01	.3657-03	.3204-03	.3657-03	.2360	1.771	525.8
278	.00000	8.3100-10	979.00	.1055	.8700-01	.1023	.2565-02	.2116-02	.2487-02	1.528	10.66	541.0
278	.00000	9.0000	832.00	.9120-01	.7510-01	.8840-01	.1826-02	.1826-02	.2149-02	1.313	9.436	544.3
278	.00000	9.2500	833.00	.7720-01	.6360-01	.7490-01	.1877-02	.1546-02	.1820-02	1.109	7.482	545.8
278	.00000	9.5000	834.00	.7090-01	.5840-01	.6880-01	.1724-02	.1420-02	.1672-02	1.020	7.828	545.4
278	.00000	8.0000	835.00	.5540-01	.4570-01	.5370-01	.1347-02	.1111-02	.1306-02	.8010	5.760	542.3

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1826)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO BTU/R FT2SEC	H1TO BTU/R FT2SEC	H1TAW BTU/R FT2SEC	QDOT BTU/R FT2SEC	DTWOT DEG. R /SEC	YW DEG. R
278	32.000	.90000	835.00	.4350-01	.3590-01	.4270-01	.1056-02	.8721-03	.1038-02	.6320	4.704	538.9
278	32.000	.95000	837.00	.1550-01	.1280-01	.1930-01	.3765-03	.3111-03	.3720-03	.2260	1.744	536.4
278	32.000	.97500	838.00	.2310-01	.1660-01	.1930-01	.4683-03	.4034-03	.4837-03	.2930	2.341	536.6
278	32.000	1.0150	839.00	.5060-01	.4150-01	.4830-01	.1231-02	.1010-02	.1174-02	.7090	5.700	560.5
278	32.000	1.0300	840.00	.2730	.2232	.2601	.6637-02	.5126-02	.6324-02	3.758	28.98	570.7
278	32.000	1.0450	841.00	.4500	.3667	.4284	.1094-01	.8913-02	.1041-01	6.082	45.86	580.9
278	32.000	1.0600	842.00	.3867	.3156	.3583	.9400-02	.7671-02	.8952-02	5.267	42.76	576.5
278	45.000	.92500	969.00	.8400-02	.5900-02	.8400-02	.2038-03	.1689-03	.2038-03	.1240	.9330	526.3
278	45.000	.95000	973.00	.4000-03	.3000-03	.4000-03	.9895-05	.8195-05	.9696-05	.6000-02	.4500-01	524.7
278	45.000	.97500	978.00	.7000-03	.6000-03	.7000-03	.1753-04	.1453-04	.1753-04	.1100-01	.8100-01	524.4
278	75.000	.97500	977.00	.6000-03	.5000-03	.6000-03	.1399-04	.1152-04	.1399-04	.9000-02	.6400-01	524.5
278	85.000	.97500	976.00	.6000-03	.5000-03	.6000-03	.1572-04	.1303-04	.1572-04	.1000-01	.7200-01	524.4
278	180.00	.10000-01	59.000	.1800	.1485	.1800	.4377-02	.3611-02	.4377-02	2.606	19.38	541.5
278	180.00	.25000-01	60.000	.5210-01	.4310-01	.5210-01	.1266-02	.1047-02	.1266-02	.7840	5.517	533.8
278	180.00	.50000-01	61.000	.2200-01	.1820-01	.2200-01	.5346-03	.4423-03	.5346-03	.3240	2.078	530.5
278	180.00	.75000-01	62.000	.1260-01	.1040-01	.1260-01	.3055-03	.2525-03	.3055-03	.1860	1.191	529.1
278	180.00	.10000+00	63.000	.9000-02	.7500-02	.9000-02	.2192-03	.1815-03	.2192-03	.1330	.8810	528.5
278	180.00	.12500	64.000	.9300-02	.7700-02	.9300-02	.2250-03	.1853-03	.2250-03	.1370	.9610	528.0
278	180.00	.15000	65.000	.1260-01	.1050-01	.1260-01	.3072-03	.2545-03	.3072-03	.1870	1.315	527.2
278	180.00	.16000	66.000	.4450-01	.3720-01	.4450-01	.1092-02	.9039-03	.1092-02	.6640	3.725	528.9
278	180.00	.17000	67.000	.6950-01	.5750-01	.6950-01	.1689-02	.1397-02	.1689-02	1.022	5.727	531.9
278	180.00	.20000	69.000	.1700-01	.1410-01	.1700-01	.4137-03	.3427-03	.4137-03	.2520	1.576	526.6
278	180.00	.40100	72.000	.5300-02	.4400-02	.5300-02	.1266-03	.1066-03	.1266-03	.7900-01	.6740	526.7
278	180.00	.50000	73.000	.7500-02	.6200-02	.7500-02	.1818-03	.1507-03	.1818-03	.1110	.9530	526.2
278	180.00	.60100	74.000	.7400-02	.6200-02	.7400-02	.1810-03	.1500-03	.1810-03	.1110	.9170	526.3
278	180.00	.70100	75.000	.7800-02	.6500-02	.7800-02	.1905-03	.1579-03	.1905-03	.1160	.9370	525.3

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1826)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
 BDFLAP = 22.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
294	7.980	1.969	30.04	.0000	180.0	429.4	.4500-01	1304.	94.90	1.993	3810.	.3951-04
295	7.980	1.968	30.06	.0000	180.0	430.6	.4500-01	1307.	95.20	1.998	3814.	.3953-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
294	.7644-07	.3469-01	0.0175
295	.7661-07	.3475-01	.2901-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TW DEG. R
294	.00000	.00000	1.0000	.7667	.6249	.6573	.2660-01	.2168-01	.2280-01	15.29	82.86	598.8
294	.00000	.50000-02	2.0000	.7471	.6072	.6108	.2592-01	.2106-01	.2119-01	14.67	98.97	607.6
294	.00000	.10000-01	3.0000	.5918	.4834	.4999	.2053-01	.1677-01	.1734-01	11.94	78.71	592.0
294	.00000	.30000-01	5.0000	.2882	.2378	.2604	.9996-02	.8250-02	.9032-02	6.162	34.09	557.2
294	.00000	.40000-01	6.0000	.2418	.1998	.2216	.8389-02	.6932-02	.7686-02	5.206	28.87	553.1
294	.00000	.50000-01	7.0000	.2217	.1827	.2049	.7689-02	.6338-02	.7107-02	4.706	31.49	561.7
294	.00000	.60000-01	8.0000	.2235	.1844	.2081	.7751-02	.6396-02	.7219-02	4.773	30.17	558.0
294	.00000	.70000-01	9.0000	.1929	.1591	.1810	.6692-02	.5519-02	.6277-02	4.108	28.37	559.9
294	.00000	.80000-01	10.000	.1542	.1274	.1455	.5350-02	.4418-02	.5048-02	3.308	22.90	555.4
294	.00000	.90000-01	11.000	.1441	.1191	.1365	.4998-02	.4132-02	.4736-02	3.108	19.71	551.7
294	.00000	1.0000+00	12.000	.1299	.1074	.1236	.4507-02	.3727-02	.4288-02	2.805	16.83	551.3
294	.00000	.12000	14.000	.1144	.9460-01	.1094	.3957-02	.3282-02	.3794-02	2.477	13.76	547.2
294	.00000	.13000	15.000	.1115	.9320-01	.1068	.3868-02	.3199-02	.3706-02	2.412	14.10	550.2
294	.00000	.14000	16.000	.1036	.8570-01	.1068	.3995-02	.2973-02	.3449-02	2.239	14.21	550.8
294	.00000	.16000	18.000	.1111	.9180-01	.1030	.3853-02	.3185-02	.3704-02	2.395	14.76	552.2
294	.00000	.17000	19.000	.1070	.8840-01	.1030	.3711-02	.3066-02	.3572-02	2.303	14.59	553.1
294	.00000	.18000	20.000	.1016	.8400-01	.9790-01	.3525-02	.2913-02	.3396-02	2.187	13.85	553.3
294	.00000	.19000	21.000	.1030	.8520-01	.9940-01	.3572-02	.2954-02	.3446-02	2.227	14.13	550.2
294	.00000	.20000	22.000	.9850-01	.8140-01	.9520-01	.3418-02	.2825-02	.3301-02	2.122	13.45	552.9

REPRODUCIBILITY OF THE  
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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(IGT) BTU/ R FT2SEC	H(OTO) BTU/ R FT2SEC	H(UTAW) BTU/ R FT2SEC	DOOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TH DEG. R
294	.00000	.22500	23.000	.9460-01	.7820-01	.9160-01	.3281-02	.2713-02	.3178-02	2.040	12.93	552.0
294	.00000	.25000	801.00	.8910-01	.7360-01	.8640-01	.3090-02	.2554-02	.2938-02	1.921	12.17	552.2
294	.00000	.30000	802.00	.8110-01	.6700-01	.7870-01	.2813-02	.2325-02	.2729-02	1.747	11.07	552.8
294	.00000	.35000	803.00	.8190-01	.6760-01	.7940-01	.2841-02	.2346-02	.2756-02	1.755	11.11	555.8
294	.00000	.40000	804.00	.8260-01	.6820-01	.8010-01	.2864-02	.2364-02	.2778-02	1.767	11.50	556.7
294	.00000	.45000	805.00	.7340-01	.6060-01	.7120-01	.2546-02	.2101-02	.2470-02	1.566	10.50	558.6
294	.00000	.50000	806.00	.6690-01	.5520-01	.6490-01	.2321-02	.1914-02	.2251-02	1.426	9.853	559.2
294	.00000	.55000	807.00	.6550-01	.5400-01	.6350-01	.2271-02	.1872-02	.2202-02	1.390	10.23	561.8
294	.00000	.60000	808.00	.6020-01	.4960-01	.5830-01	.2087-02	.1720-02	.2024-02	1.276	9.392	562.1
294	.00000	.65000	809.00	.5380-01	.4430-01	.5210-01	.1865-02	.1536-02	.1808-02	1.137	8.356	564.2
294	.00000	.70000	810.00	.5220-01	.4300-01	.5060-01	.1809-02	.1490-02	.1754-02	1.102	8.375	564.8
294	.00000	.75000	811.00	.5300-01	.4360-01	.5140-01	.1838-02	.1514-02	.1782-02	1.120	8.228	564.6
294	.00000	.80000	812.00	.6180-01	.5090-01	.5990-01	.2142-02	.1765-02	.2077-02	1.306	9.599	564.2
294	.00000	.85000	813.00	.6080-01	.5010-01	.5950-01	.2108-02	.1737-02	.2057-02	1.286	9.787	563.3
294	.00000	.90000	814.00	.5840-01	.4820-01	.5740-01	.2028-02	.1672-02	.1982-02	1.245	8.879	559.6
294	.00000	.92500	815.00	.4200-01	.3470-01	.4140-01	.1457-02	.1202-02	.1435-02	1.090	7.359	557.3
294	.00000	.95000	816.00	.3230-01	.2670-01	.3190-01	.1121-02	.9251-03	.1685-02	1.041	5.666	557.0
294	.00000	.97500	817.00	.4910-01	.4040-01	.4860-01	.1702-02	.1403-02	.1685-02	1.041	8.513	561.9
294	.00000	1.0150	818.00	.2082	.1699	.2068	.7223-02	.5894-02	.7173-02	4.177	30.23	595.4
294	.00000	1.0300	819.00	.5052	.4096	.5016	.1753-01	.1421-01	.1740-01	5.785	70.13	615.4
294	.00000	1.0600	821.00	.4482	.3619	.4449	.1555-01	.1255-01	.1543-01	8.507	68.65	626.5
294	.00000	1.1500	822.00	.8000-02	.6700-02	.8000-02	.2790-03	.2316-03	.2790-03	1.780	1.076	536.0
294	.00000	1.2000	823.00	.1770-01	.1470-01	.1770-01	.6152-03	.5109-03	.6152-03	.3930	2.445	534.6
294	.00000	1.5000	824.00	.8500-02	.7100-02	.8500-02	.2949-03	.2449-03	.2949-03	.1880	1.140	534.8
294	.00000	1.40000	825.00	.8190-01	.6750-01	.7940-01	.2841-02	.2341-02	.2755-02	1.736	13.68	562.6
294	.00000	1.5000	826.00	.7520-01	.6190-01	.7290-01	.2608-02	.2148-02	.2529-02	1.587	12.49	565.3
294	.00000	1.6000	827.00	.5080-01	.4180-01	.4920-01	.1761-02	.1450-02	.1708-02	1.071	9.445	565.4
294	.00000	1.7000	828.00	.5963-01	.4910-01	.5780-01	.2069-02	.1703-02	.2005-02	1.255	9.208	567.3
294	.00000	1.8000	829.00	.5940-01	.4930-01	.5760-01	.2060-02	.1697-02	.1997-02	1.255	9.221	564.7
294	.00000	1.9000	830.00	.5070-01	.4180-01	.4980-01	.1759-02	.1451-02	.1728-02	1.080	8.523	559.7
294	.00000	1.9500	831.00	.1253	.1036	.1259	.4367-02	.3594-02	.4367-02	2.647	19.43	567.4
294	.00000	2.0000	832.00	.1617	.1329	.1617	.5609-02	.4611-02	.5609-02	3.378	24.74	571.4
294	.00000	2.0500	833.00	.1004	.8290-01	.1004	.3482-02	.2875-02	.3482-02	2.149	15.86	556.5
294	.00000	2.1000	834.00	.1130-01	.9400-02	.1130-01	.3927-03	.3262-03	.3927-03	2.510	15.45	560.1
294	.00000	2.1500	835.00	.9860-01	.8130-01	.9860-01	.3419-02	.2819-02	.3419-02	2.098	15.45	560.8
294	.00000	2.2000	836.00	.1167	.9620-01	.1167	.4048-02	.3338-02	.4048-02	2.481	18.27	560.8
294	.00000	2.2500	837.00	.4140-01	.3440-01	.4140-01	.1437-02	.1192-02	.1437-02	9.110	6.785	539.3
294	.00000	2.3000	838.00	.1065	.8780-01	.1032	.3693-02	.3045-02	.3582-02	2.264	15.63	560.6
294	.00000	2.3500	839.00	.9300-01	.7410-01	.8730-01	.3122-02	.2571-02	.3027-02	1.900	13.51	565.2
294	.00000	2.4000	840.00	.7550-01	.6220-01	.7330-01	.2623-02	.2159-02	.2542-02	1.592	10.63	566.6
294	.00000	2.4500	841.00	.5610-01	.4620-01	.5440-01	.1948-02	.1603-02	.1868-02	1.181	8.969	567.2
294	.00000	2.5000	842.00	.5430-01	.4480-01	.5270-01	.1884-02	.1552-02	.1827-02	1.149	8.174	564.0
294	.00000	2.5500	843.00	.5160-01	.4250-01	.5070-01	.1789-02	.1476-02	.1758-02	1.099	8.103	559.1

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1826)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9T0) BTU/ R FT2SEC	H(T0) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R 'SEC	TW DEG. R
294	32.000	.95000	837.00	.4630-01	.3620-01	.4570-01	.1603-02	.1326-02	.1587-02	.9900	7.552	557.4
294	32.000	.97500	838.00	.3900-01	.3130-01	.3760-01	.1317-02	.1087-02	.1304-02	.8120	6.432	556.1
294	32.000	1.0150	839.00	.2255	.1832	.2145	.7821-02	.6755-02	.7440-02	4.424	34.71	608.1
294	32.000	1.0300	840.00	.5623	.4525	.5335	.1951-01	.1570-01	.1851-01	10.49	78.33	636.1
294	32.000	1.0450	841.00	.5832	.4697	.5535	.2023-01	.1629-01	.1920-01	10.91	80.17	634.4
294	32.000	1.0500	842.00	.4280	.3484	.4067	.1463-01	.1202-01	.1411-01	8.224	65.35	619.7
294	45.000	.92500	959.00	.1530-01	.1270-01	.1530-01	.5313-03	.4408-03	.5313-03	.3380	2.514	538.3
294	45.000	.95000	973.00	.1100-02	.9000-03	.1100-02	.3624-04	.3043-04	.3624-04	.2300-01	.1750	535.0
294	45.000	.97500	978.00	.9000-03	.7000-03	.9000-03	.3094-04	.2569-04	.3094-04	.2000-01	.1480	534.4
294	75.000	.97500	977.00	.7000-03	.6000-03	.7000-03	.3223-04	.1934-04	.2329-04	.1500-01	.1110	534.4
294	85.000	.97500	976.00	.9000-03	.7000-03	.9000-03	.2987-04	.2481-04	.2987-04	.1900-01	.1430	533.8
294	180.00	.10000-01	59.000	.1728	.1478	.1728	.6202-02	.5126-02	.6202-02	3.855	28.51	552.1
294	180.00	.25000-01	60.000	.5050-01	.4200-01	.5050-01	.1753-02	.1456-02	.1756-02	1.113	8.014	539.9
294	180.00	.50000-01	61.000	.2190-01	.1810-01	.2190-01	.7563-03	.6284-03	.7584-03	.4830	3.083	537.2
294	180.00	.75000-01	62.000	.1150-01	.9800-02	.1150-01	.4076-03	.3384-03	.4076-03	.2600	1.659	536.5
294	180.00	.10000+00	63.000	.8600-02	.7200-02	.8600-02	.2394-03	.2485-03	.2994-03	.1910	1.255	536.5
294	180.00	.12500	64.000	.1100-01	.9200-02	.1100-01	.3933-03	.3182-03	.3833-03	.2440	1.706	536.9
294	180.00	.15000	65.000	.1900-01	.1580-01	.1900-01	.6593-03	.5472-03	.6593-03	.4200	2.933	536.9
294	180.00	.16000	66.000	.6000-01	.4980-01	.6000-01	.2082-02	.1726-02	.2082-02	1.316	7.335	541.9
294	180.00	.17000	67.000	.8900-01	.7370-01	.8900-01	.3084-02	.2555-02	.3084-02	1.945	10.84	542.9
294	180.00	.20000	69.000	.1500-01	.1250-01	.1500-01	.5208-03	.4325-03	.5208-03	.3330	2.069	534.6
294	180.00	.40100	72.000	.9300-02	.7700-02	.9300-02	.3223-03	.2677-03	.3223-03	.2060	1.758	534.6
294	180.00	.50000	73.000	.8000-02	.6700-02	.8000-02	.2784-03	.2312-03	.2784-03	.1780	1.518	534.6
294	180.00	.60100	74.000	.6300-02	.5200-02	.6300-02	.2187-03	.1817-03	.2187-03	.1400	1.156	533.9
294	180.00	.70100	75.000	.6700-02	.5600-02	.6700-02	.2326-03	.1932-03	.2326-03	.1490	1.193	533.2



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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1826)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
BDFLAP = 22.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TC DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
326	7.950	2.982	30.07	.0000	180.0	675.1	.7000-01	1334.	96.90	3.115	3854.	.6035-04
327	7.990	2.976	30.08	.0000	180.0	674.9	.7000-01	1335.	97.00	3.115	3856.	.6028-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
326	.7802-07	.4354-01	0.0175
327	.7809-07	.4355-01	.2354-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(1AW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TW DEG. R
326	.00000	.00000	1.0000	.7748	.6318	.6646	.3374-01	.2751-01	.2694-01	19.90	107.2	611.0
326	.00000	.5000-02	2.0000	.7470	.6070	.6105	.3253-01	.2643-01	.2659-01	18.82	126.1	622.1
326	.00000	.1000-01	3.0000	.6157	.5032	.5204	.2681-01	.2191-01	.2266-01	16.01	104.9	603.6
326	.00000	.2000-01	4.0000	.3916	.3233	.3469	.1705-01	.1408-01	.1510-01	10.77	59.24	569.1
326	.00000	.3000-01	5.0000	.2886	.2389	.2612	.1257-01	.1040-01	.1137-01	8.050	44.47	560.3
326	.00000	.4000-01	6.0000	.2427	.2011	.2226	.1057-01	.0758-02	.0695-02	6.821	37.77	555.4
326	.00000	.5000-01	7.0000	.2237	.1848	.2069	.9740-02	.8047-02	.9010-02	6.180	41.26	566.3
326	.00000	.6000-01	8.0000	.2242	.1855	.2090	.9765-02	.8078-02	.9102-02	6.239	39.36	561.8
326	.00000	.7000-01	9.0000	.1945	.1608	.1826	.8471-02	.7002-02	.7951-02	5.386	37.11	565.0
326	.00000	.8000-01	10.000	.1553	.1286	.1467	.6763-02	.5599-02	.6387-02	4.339	29.97	559.3
326	.00000	.9000-01	11.000	.1451	.1203	.1376	.6319-02	.5238-02	.5993-02	4.084	25.86	554.5
326	.00000	.1000-00	12.000	.1320	.1095	.1257	.5750-02	.4766-02	.5474-02	3.717	22.27	554.2
326	.00000	.12000	14.000	.1204	.1000-00	.1153	.5245-02	.4353-02	.5020-02	3.415	18.97	549.6
326	.00000	.13000	15.000	.1130	.9370-01	.1083	.4920-02	.4082-02	.4717-02	3.198	18.68	550.9
326	.00000	.14000	16.000	.1045	.8570-01	.1003	.4550-02	.3774-02	.4368-02	2.953	18.72	551.9
326	.00000	.16000	18.000	.1064	.8820-01	.1024	.4635-02	.3842-02	.4458-02	2.997	18.45	554.2
326	.00000	.17000	19.000	.1070	.8870-01	.1030	.4658-02	.3860-02	.4486-02	3.007	19.03	555.3
326	.00000	.18000	20.000	.1062	.8800-01	.1023	.4623-02	.3830-02	.4456-02	2.980	18.85	556.3
326	.00000	.19000	21.000	.1064	.8830-01	.1027	.4635-02	.3843-02	.4474-02	3.003	19.03	552.9

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AEDC VKF V418-57A (OH-498) COLLATION DECK

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(RV1826)

OH-498 (AEDC V418-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TM DEG. R
326	.00000	.20000	22.000	.9920-01	.8220-01	.9590-01	.4321-02	.3580-02	.4175-02	2.785	17.62	556.1
326	.00000	.22500	23.000	.9440-01	.7820-01	.9150-01	.4110-02	.3406-02	.3982-02	2.653	16.79	555.3
326	.00000	.25000	801.00	.9020-01	.7470-01	.8760-01	.3930-02	.3254-02	.3813-02	2.527	15.98	557.7
326	.00000	.30000	802.00	.8250-01	.6830-01	.8000-01	.3591-02	.2973-02	.3484-02	2.304	14.79	559.1
326	.00000	.35000	803.00	.6470-01	.7000-01	.8220-01	.3688-02	.3049-02	.3578-02	2.348	15.01	564.2
326	.00000	.40000	804.00	.8370-01	.6920-01	.8120-01	.3646-02	.3013-02	.3537-02	2.316	13.90	565.6
326	.00000	.45000	805.00	.7360-01	.6250-01	.7330-01	.3293-02	.2719-02	.3194-02	2.084	13.62	567.9
326	.00000	.50000	806.00	.6980-01	.5760-01	.6770-01	.3040-02	.2509-02	.2948-02	1.918	13.01	574.1
326	.00000	.55000	807.00	.6820-01	.5630-01	.6620-01	.2971-02	.2450-02	.2881-02	1.862	12.49	575.1
326	.00000	.60000	808.00	.6530-01	.5380-01	.6330-01	.2844-02	.2267-02	.2759-02	1.780	13.67	578.9
326	.00000	.65000	809.00	.6320-01	.5210-01	.6130-01	.2753-02	.2208-02	.2635-02	1.813	15.76	581.4
326	.00000	.70000	810.00	.6720-01	.5530-01	.6510-01	.2926-02	.2408-02	.2835-02	2.165	19.44	582.6
326	.00000	.75000	811.00	.8050-01	.6620-01	.7800-01	.3504-02	.2881-02	.3396-02	2.669	21.96	583.0
326	.00000	.80000	812.00	.9920-01	.8160-01	.9610-01	.4746-02	.3903-02	.4652-02	2.932	22.09	583.0
326	.00000	.85000	813.00	.1090	.8960-01	.1068	.4994-02	.4113-02	.4906-02	3.109	21.88	574.7
326	.00000	.90000	814.00	.1147	.9440-01	.1127	.4994-02	.4113-02	.4906-02	3.109	21.88	574.7
326	.00000	.92500	815.00	.9880-01	.8140-01	.9730-01	.4300-02	.3545-02	.4236-02	2.693	22.18	575.6
326	.00000	.95000	816.00	.1003	.8270-01	.9910-01	.4369-02	.3601-02	.4315-02	2.732	23.86	578.7
326	.00000	.97500	817.00	.1086	.8940-01	.1075	.4729-02	.3894-02	.4683-02	2.942	75.95	634.2
326	.00000	1.0150	818.00	.4334	.3508	.4301	.1887-01	.1527-01	.1873-01	10.69	95.54	644.9
326	.00000	1.0300	819.00	.5586	.4505	.5544	.2432-01	.1961-01	.2414-01	13.52	81.94	650.0
326	.00000	1.0600	821.00	.4281	.3446	.4249	.1864-01	.1501-01	.1850-01	10.27	1.150	535.2
326	.00000	.15000	89.000	.6600-02	.5500-02	.6600-02	.2857-03	.2380-03	.2857-03	.1900	3.875	539.0
326	.00000	.20000	91.000	.2170-01	.1800-01	.2170-01	.9437-03	.7854-03	.9437-03	.6250	1.102	535.2
326	.00000	.50000-01	90.000	.6300-02	.5200-02	.6300-02	.2737-03	.2280-03	.2737-03	.1820	16.51	577.3
326	.00000	.40000	823.00	.8430-01	.6950-01	.8170-01	.3669-02	.3028-02	.3558-02	2.313	13.00	579.1
326	.00000	.50000	824.00	.7770-01	.6400-01	.7530-01	.3383-02	.2787-02	.3280-02	2.109	14.26	583.1
326	.00000	.60000	825.00	.5480-01	.4520-01	.5320-01	.2388-02	.1966-02	.2315-02	1.485	17.99	582.0
326	.00000	.70000	826.00	.7280-01	.5990-01	.7060-01	.3170-02	.2607-02	.3072-02	2.469	20.21	577.9
326	.00000	.80000	827.00	.9160-01	.7540-01	.8880-01	.3990-02	.3282-02	.3867-02	2.584	26.16	581.5
326	.00000	.90000	828.00	.9530-01	.7850-01	.9360-01	.4148-02	.3416-02	.4075-02	3.590	33.68	586.6
326	.00000	.92500	971.00	.1331	.1095	.1331	.5797-02	.4769-02	.5797-02	4.633	24.56	566.1
326	.00000	.95000	975.00	.1732	.1423	.1732	.7544-02	.6198-02	.7544-02	3.344	2.088	537.3
326	.00000	.97500	980.00	.1210	.1000-00	.1210	.5269-02	.4354-02	.5269-02	3.360	22.12	570.4
326	.00000	.20000	93.000	.1160-01	.9700-02	.1160-01	.5068-03	.4220-03	.5068-03	3.018	26.43	575.2
326	.00000	.30000	970.00	.1099	.9370-01	.1099	.4787-02	.3951-02	.4787-02	3.615	7.160	544.4
326	.00000	.40000	974.00	.1327	.1094	.1327	.5773-02	.4763-02	.5773-02	3.615	19.88	566.7
326	.00000	.50000	979.00	.3370-01	.2800-01	.3370-01	.1469-02	.1221-02	.1469-02	.9640	17.17	574.6
326	.00000	.60000	832.00	.1046	.8640-01	.1015	.4555-02	.3763-02	.4418-02	2.426	14.26	580.4
326	.00000	.70000	833.00	.8900-01	.7340-01	.8630-01	.3875-02	.3184-02	.3757-02	2.152	16.04	584.7
326	.00000	.80000	834.00	.7960-01	.6550-01	.7720-01	.3468-02	.2854-02	.3362-02	2.130	15.36	581.5
326	.00000	.90000	835.00	.7940-01	.6530-01	.7700-01	.3458-02	.2842-02	.3351-02	2.177		
326	.00000	.95000	835.00	.8070-01	.6640-01	.7830-01	.3516-02	.2892-02	.3408-02			

AEDC VKF V41B-57A (OH-498) COLLATION DECK  
OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AM) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
326	32.000	.90000	836.00	.9290-01	.7660-01	.9130-01	.4047-02	.3335-02	.3976-02	2.531	19.51	575.2
326	32.000	.95000	837.00	.1034	.8330-01	.1022	.4504-02	.3715-02	.4449-02	2.827	21.41	573.0
326	32.000	.97500	838.00	.1043	.8600-01	.1033	.4504-02	.3715-02	.4449-02	2.827	21.41	574.2
326	32.000	1.0150	839.00	.4542	.3649	.4307	.1978-01	.1589-01	.1875-01	10.78	82.67	655.7
326	32.000	1.0300	840.00	.5720	.4582	.5420	.2431-01	.1995-01	.2360-01	13.38	98.65	663.5
326	32.000	1.0450	841.00	.5664	.4541	.5369	.2466-01	.1978-01	.2338-01	13.31	96.57	661.0
326	32.000	1.0600	842.00	.4178	.3372	.3967	.1819-01	.1468-01	.1727-01	10.15	79.77	642.9
326	45.000	.92500	969.00	.1720-01	.1430-01	.1720-01	.7505-03	.6236-03	.7505-03	4.920	3.653	545.0
326	45.000	.95000	973.00	.1300-02	.1000-02	.1300-02	.5491-04	.4565-04	.5491-04	3.600-01	.2690	542.6
326	45.000	.97500	978.00	.1400-02	.1200-02	.1400-02	.6128-04	.5096-04	.6128-04	4.000-01	.3000	541.8
326	75.000	.97500	977.00	.1000-02	.8000-03	.1000-02	.4249-04	.3533-04	.4249-04	2.800-01	.2090	542.2
326	85.000	.97500	976.00	.1400-02	.1200-02	.1400-02	.6187-04	.5146-04	.6187-04	4.100-01	.3030	541.6
326	180.00	.10000-01	59.000	.1743	.1445	.1743	.7590-02	.6292-02	.7590-02	4.910	36.29	553.8
326	180.00	.25000-01	60.000	.4860-01	.4040-01	.4860-01	.2116-02	.1761-02	.2116-02	1.400	10.09	539.0
326	180.00	.50000-01	61.000	.2060-01	.1720-01	.2060-01	.8970-03	.7470-03	.8970-03	5.960	3.809	536.3
326	180.00	.75000-01	62.000	.1100-01	.9100-02	.1100-01	.4769-03	.3971-03	.4769-03	3.170	2.026	536.0
326	180.00	1.0000+00	63.000	.9700-02	.8100-02	.9700-02	.4227-03	.3520-03	.4227-03	2.810	1.847	536.6
326	180.00	.12500	64.000	.1190-01	.9900-02	.1190-01	.5197-03	.4327-03	.5197-03	3.450	2.408	537.4
326	180.00	.15000	65.000	.2210-01	.1840-01	.2210-01	.9637-03	.8020-03	.9637-03	6.380	4.452	539.0
326	180.00	.16000	66.000	.6950-01	.5800-01	.6950-01	.3043-02	.2528-02	.3043-02	1.993	1.109	545.9
326	180.00	.17000	67.000	.9420-01	.7820-01	.9420-01	.4102-02	.3405-02	.4102-02	2.674	14.65	549.0
326	180.00	.20000	69.000	.1470-01	.1220-01	.1470-01	.6393-03	.5321-03	.6393-03	4.230	2.628	538.4
326	180.00	.40100	72.000	.1000-01	.8300-02	.1000-01	.4362-03	.3629-03	.4362-03	2.880	2.453	539.9
326	190.00	.50000	73.000	.9200-02	.7700-02	.9200-02	.4004-03	.3332-03	.4004-03	2.650	2.252	539.8
326	180.00	.60100	74.000	.6900-02	.5700-02	.6900-02	.2991-03	.2488-03	.2991-03	1.980	1.627	540.1
326	180.00	.70100	75.000	.6500-02	.5400-02	.6500-02	.2843-03	.2366-03	.2843-03	1.890	1.501	539.1

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B26)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 5.000 SPDRK = .0000  
 BDFLAP = 22.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	FT/SEC	RHO SLUGS /FT <sup>3</sup>
302	8.000	3.751	30.05	.0000	180.0	861.0	.8800-01	1343.	97.40	3.951	3868.	.7601-04
303	8.000	3.735	30.07	.0000	180.0	861.5	.8800-01	1348.	97.70	3.953	3874.	.7581-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
302	.7838-07	.4910-01		0.0175
303	.7863-07	.4914-01		.2098-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(1AW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TW DEG. R
302	.00000	.00000	1.0000	.7789	.6334	.6666	.3824-01	.3110-01	.3273-01	22.37	119.7	624.2
302	.00000	.50000-02	2.0000	.7467	.6050	.6086	.3666-01	.2970-01	.2988-01	21.03	140.0	635.3
302	.00000	.10000-01	3.0000	.6214	.5068	.5242	.3051-01	.2488-01	.2574-01	18.11	118.0	615.4
302	.00000	.20000-01	4.0000	.3911	.3226	.3462	.1920-01	.1584-01	.1700-01	12.14	66.52	576.7
302	.00000	.30000-01	5.0000	.2865	.2369	.2592	.1407-01	.1163-01	.1272-01	9.031	49.72	567.1
302	.00000	.40000-01	6.0000	.2434	.2016	.2232	.1195-01	.9897-02	.1096-01	7.739	42.73	561.5
302	.00000	.50000-01	7.0000	.2240	.1849	.2072	.1102-01	.9079-02	.1017-01	6.991	46.50	573.5
302	.00000	.60000-01	8.0000	.2244	.1856	.2092	.1102-01	.9110-02	.1027-01	7.065	44.44	567.9
302	.00000	.70000-01	9.0000	.1962	.1620	.1841	.9631-02	.7955-02	.9039-02	6.142	42.18	571.4
302	.00000	.80000-01	10.000	.1510	.1250	.1426	.7414-02	.6136-02	.7002-02	4.780	32.94	564.4
302	.00000	.90000-01	11.000	.1452	.1204	.1377	.7130-02	.5909-02	.6762-02	4.636	29.29	558.8
302	.00000	1.0000+00	12.000	.1306	.1082	.1243	.6410-02	.5312-02	.6103-02	4.169	24.92	553.2
302	.00000	.12000	14.000	.1215	.1009	.1163	.5866-02	.4951-02	.5711-02	3.913	21.69	553.2
302	.00000	.13000	15.000	.1088	.9030-01	.1043	.5343-02	.4433-02	.5123-02	3.497	20.39	554.6
302	.00000	.14000	16.000	.1023	.8480-01	.9820-01	.5021-02	.4165-02	.4821-02	3.283	20.78	555.3
302	.00000	.16000	18.000	.1093	.9060-01	.1052	.5368-02	.4450-02	.5164-02	3.497	21.49	557.7
302	.00000	.17000	19.000	.1062	.8800-01	.1023	.5212-02	.4319-02	.5020-02	3.388	21.40	559.1
302	.00000	.18000	20.000	.1082	.8970-01	.1043	.5312-02	.4402-02	.5120-02	3.450	21.79	559.7
302	.00000	.19000	21.000	.1051	.8720-01	.1015	.5160-02	.4260-02	.4981-02	3.372	21.34	555.6

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
302	.00000	.20000	22.000	.9810-01	.8130-01	.9490-01	.4819-02	.3993-02	.4657-02	3.131	19.78	559.2
302	.00000	.22500	23.000	.9180-01	.7610-01	.8900-01	.4509-02	.3738-02	.4369-02	2.937	18.57	557.7
302	.00000	.25000	801.00	.9040-01	.7500-01	.8780-01	.4440-02	.3680-02	.4309-02	2.890	18.27	558.1
302	.00000	.30000	802.00	.8990-01	.7040-01	.8240-01	.4169-02	.3455-02	.4046-02	2.711	17.13	558.7
302	.00000	.35000	803.00	.8640-01	.7160-01	.8390-01	.4244-02	.3514-02	.4119-02	2.742	17.29	562.9
302	.00000	.40000	804.00	.8530-01	.7060-01	.8280-01	.4187-02	.3466-02	.4063-02	2.706	17.56	562.8
302	.00000	.45000	805.00	.7550-01	.6260-01	.7330-01	.3711-02	.3072-02	.3601-02	2.395	16.01	563.7
302	.00000	.50000	806.00	.7310-01	.6050-01	.7100-01	.3550-02	.2970-02	.3484-02	2.309	15.90	566.0
302	.00000	.55000	807.00	.7400-01	.6120-01	.7180-01	.3535-02	.3005-02	.3527-02	2.331	17.10	567.9
302	.00000	.60000	808.00	.7810-01	.6450-01	.7580-01	.3637-02	.3172-02	.3722-02	2.458	18.03	568.5
302	.00000	.65000	809.00	.9520-01	.7660-01	.9230-01	.4673-02	.3857-02	.4533-02	2.568	21.71	574.1
302	.00000	.70000	810.00	.1274	.1050	.1235	.6257-02	.5156-02	.6067-02	3.937	29.71	579.8
302	.00000	.75000	811.00	.1712	.1409	.1650	.8406-02	.6915-02	.8148-02	5.240	38.11	585.7
302	.00000	.80000	812.00	.2129	.1748	.2063	.1045-01	.6593-02	.1013-01	6.448	46.75	582.2
302	.00000	.85000	813.00	.2241	.1838	.2156	.1109-01	.6925-02	.1078-01	6.750	50.53	595.6
302	.00000	.90000	814.00	.2148	.1764	.2110	.1055-01	.6663-02	.1036-01	6.518	45.75	591.1
302	.00000	.92500	815.00	.1835	.1510	.1808	.9010-02	.7412-02	.8876-02	5.615	45.37	585.9
302	.00000	.95000	816.00	.1829	.1503	.1807	.8931-02	.7377-02	.8870-02	5.550	44.73	591.1
302	.00000	.97500	817.00	.1925	.1579	.1906	.9452-02	.7753-02	.9359-02	5.797	46.61	595.8
302	.00000	1.0150	818.00	.5032	.4047	.4994	.2471-01	.1987-01	.2452-01	13.63	95.76	657.7
302	.00000	1.0300	819.00	.5338	.4343	.5357	.2650-01	.2132-01	.2630-01	14.66	103.1	655.7
302	.00000	1.0600	821.00	.4281	.3433	.4248	.2102-01	.1686-01	.2086-01	11.44	90.65	664.7
302	.00000	1.5000	89.000	.7300-02	.6100-02	.7300-02	.3594-03	.2995-03	.3594-03	.2410	1.457	538.1
302	.00000	1.5000	91.000	.2490-01	.2070-01	.2490-01	.1223-02	.1018-02	.1223-02	.8160	5.058	541.5
302	.00000	20.000	92.000	.1800-02	.1500-02	.1800-02	.8723-04	.7267-04	.8723-04	.5300-01	.3530	538.6
302	.00000	40.000	823.00	.6600-01	.7100-01	.8340-01	.4221-02	.3487-02	.4095-02	2.692	21.13	571.3
302	.00000	50.000	824.00	.8160-01	.6730-01	.7910-01	.4004-02	.3306-02	.3884-02	2.546	19.96	573.3
302	.00000	60.000	825.00	.6350-01	.5200-01	.6160-01	.3116-02	.2572-02	.3022-02	1.982	17.40	573.1
302	.00000	70.000	826.00	.1077	.8870-01	.1044	.5299-02	.4357-02	.5127-02	3.326	24.26	580.1
302	.00000	80.000	827.00	.1739	.1430	.1686	.6537-02	.7020-02	.8275-02	5.307	38.56	587.5
302	.00000	90.000	828.00	.1755	.1474	.1763	.6911-02	.7239-02	.8655-02	5.451	42.37	590.4
302	.00000	92500	971.00	.1351	.1112	.1351	.6531-02	.5461-02	.6631-02	4.158	30.29	582.1
302	.00000	95000	973.00	.1823	.1498	.1823	.6950-02	.7352-02	.8550-02	5.533	40.14	590.9
302	.00000	97500	980.00	.1234	.1020	.1234	.6060-02	.5007-02	.6060-02	3.871	28.37	570.3
302	.00000	20.000	93.000	.1350-01	.1130-01	.1360-01	.6682-03	.5565-03	.6682-03	.4470	2.772	540.1
302	.00000	92500	974.00	.1094	.9040-01	.1094	.5369-02	.4436-02	.5369-02	3.431	25.15	570.0
302	.00000	95000	974.00	.1378	.1136	.1378	.6763-02	.5577-02	.6765-02	4.266	31.14	578.5
302	.00000	97500	979.00	.4440-01	.3700-01	.4440-01	.2182-02	.1814-02	.2182-02	1.446	10.73	546.3
302	.00000	83100+10	831.00	.1022	.8450-01	.1022	.5015-02	.4146-02	.4865-02	3.215	22.11	568.1
302	.00000	832.00	832.00	.9560-01	.7650-01	.8380-01	.4548-02	.3754-02	.4411-02	2.892	20.48	573.3
302	.00000	833.00	833.00	.6900-01	.7170-01	.8430-01	.4258-02	.3522-02	.4140-02	2.704	17.97	575.6
302	.00000	834.00	834.00	.8740-01	.7200-01	.8430-01	.4293-02	.3535-02	.4162-02	2.687	20.24	581.3
302	.00000	835.00	835.00	.1172	.9660-01	.1137	.5755-02	.4740-02	.5580-02	3.613	25.49	581.3

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1826)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H19TO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H(TAM) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
302	32.000	.90000	836.00	.1475	.1214	.1449	.7239-02	.5962-02	.7113-02	4.539	33.06	582.2
302	32.000	.95000	837.00	.1667	.1373	.1647	.8185-02	.6740-02	.8085-02	5.128	38.54	582.6
302	32.000	.97500	838.00	.1714	.1408	.1697	.8413-02	.6915-02	.8331-02	5.215	40.56	589.3
302	32.000	1.0150	839.00	.5374	.4274	.5084	.2639-01	.2098-01	.2496-01	13.77	104.0	687.2
302	32.000	1.0300	840.00	.5647	.4508	.5347	.2772-01	.2213-01	.2625-01	14.74	108.0	677.4
302	32.000	1.0450	841.00	.5744	.4582	.5438	.2820-01	.2250-01	.2670-01	14.95	107.5	679.0
302	32.000	1.0600	842.00	.4335	.3481	.4111	.2128-01	.1709-01	.2018-01	11.66	90.67	661.0
302	45.000	.92500	969.00	.1930-01	.1610-01	.1930-01	.9477-03	.7889-03	.9477-03	.6330	+.704	541.6
302	45.000	.95000	973.00	.1300-02	.1100-02	.1300-02	.6209-04	.5173-04	.6209-04	.4200-01	.3170	538.1
302	45.000	.97500	978.00	.1400-02	.1200-02	.1400-02	.6847-04	.5704-04	.6847-04	.4600-01	.3420	538.3
302	75.000	.97500	977.00	.6000-03	.7000-03	.8000-03	.4012-04	.3342-04	.4012-04	.2700-01	.2000	538.5
302	85.000	.97500	976.00	.2500-02	.2100-02	.2500-02	.1245-03	.1037-03	.1245-03	.8300-01	.6210	539.1
302	180.00	.10000-01	59.000	.1713	.1419	.1713	.8409-02	.6966-02	.8409-02	5.451	40.13	560.9
302	180.00	.25000-01	60.000	.4750-01	.3950-01	.4750-01	.2330-02	.1938-02	.2330-02	1.549	11.13	544.2
302	180.00	.50000-01	61.000	.2000-01	.1660-01	.2000-01	.9796-03	.8158-03	.9796-03	.6560	4.183	539.7
302	180.00	.75000-01	62.000	.1070-01	.8900-02	.1070-01	.5263-03	.4385-03	.5263-03	.3530	2.254	538.3
302	180.00	.10000-00	63.000	.9200-02	.7600-02	.9200-02	.4506-03	.3754-03	.4506-03	.3020	1.985	538.7
302	180.00	.12500	64.000	.1330-01	.1100-01	.1330-01	.6507-03	.5420-03	.6507-03	.4360	3.042	539.2
302	180.00	.15000	65.000	.2450-01	.2040-01	.2450-01	.1205-02	.1003-02	.1205-02	.8050	5.612	540.9
302	180.00	.16000	66.000	.7430-01	.6170-01	.7430-01	.3646-02	.3028-02	.3646-02	2.402	13.34	550.2
302	180.00	.17000	67.000	.9660-01	.8030-01	.9660-01	.4742-02	.3940-02	.4742-02	3.131	17.39	548.9
302	180.00	.20000	69.000	.1460-01	.1210-01	.1460-01	.5953-03	.4960-03	.5953-03	.4790	2.969	539.5
302	180.00	.40100	72.000	.1210-01	.1010-01	.1210-01	.5957-03	.4960-03	.5957-03	.3980	3.384	540.9
302	180.00	.50000	73.000	.1050-01	.8700-02	.1050-01	.5143-03	.4283-03	.5143-03	.3440	2.926	540.1
302	180.00	.60100	74.000	.7300-02	.6100-02	.7300-02	.7586-03	.2987-03	.7586-03	.2400	1.979	539.2
302	180.00	.70100	75.000	.6400-02	.5400-02	.6400-02	.3162-03	.2634-03	.3162-03	.2120	1.591	539.0

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AEDC VKI V41B-57A (OH-498) COLLATION DECK

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## FUSELAGE

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B27)

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 5.000 SPDGRK = .0000  
BOFLAP = 22.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
262	7.900	.5464	39.99	.0000	180.0	110.2	.1200-01	1261.	93.50	.5350	3744.	.1099-04
263	7.900	.5408	40.06	.0000	180.0	109.0	.1200-01	1260.	93.50	.5290	3743.	.1088-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
262	.7529-07	.1787-01	0.0175
263	.7526-07	.1777-01	.5481-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(970) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AM) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTAOT DEG. R /SEC	TW DEG. R
262	.00000	.00000	1.0000	.6049	.4966	.5401	.1081-01	.8874-02	.9652-02	6.249	34.58	556.7
262	.00000	.50000-02	2.0000	.7138	.5848	.5848	.1275-01	.1045-01	.1045-01	7.294	50.30	562.9
262	.00000	.10000-01	3.0000	.6511	.5340	.5403	.1164-01	.9544-02	.9657-02	6.692	44.82	559.7
262	.00000	.30000-01	5.0000	.3411	.2808	.2968	.6098-02	.5013-02	.5305-02	3.580	19.91	547.5
262	.00000	.40000-01	6.0000	.2780	.2290	.2447	.4968-02	.4092-02	.4374-02	2.927	16.29	545.6
262	.00000	.50000-01	7.0000	.2810	.2311	.2493	.5022-02	.4130-02	.4455-02	2.931	19.72	551.2
262	.00000	.60000-01	8.0000	.2850	.2345	.2545	.5093-02	.4191-02	.4549-02	2.985	18.95	548.7
262	.00000	.70000-01	9.0000	.2486	.2045	.2234	.4442-02	.3654-02	.3993-02	2.597	18.03	550.1
262	.00000	.80000-01	10.000	.2022	.1663	.1827	.3613-02	.2972-02	.3265-02	2.114	14.68	549.7
262	.00000	.90000-01	11.000	.1914	.1576	.1735	.3121-02	.2616-02	.3103-02	2.010	12.77	547.2
262	.00000	.10000+00	12.000	.1725	.1420	.1571	.3083-02	.2539-02	.2898-02	1.812	10.89	547.0
262	.00000	.12000	14.000	.1561	.1286	.1429	.2790-02	.2299-02	.2554-02	1.647	9.171	544.4
262	.00000	.13000	15.000	.1617	.1332	.1482	.2889-02	.2380-02	.2649-02	1.704	9.986	544.9
262	.00000	.14000	16.000	.1469	.1210	.1348	.2625-02	.2163-02	.2410-02	1.548	9.847	545.1
262	.00000	.16000	18.000	.1489	.1226	.1370	.2661-02	.2192-02	.2448-02	1.568	9.694	545.6
262	.00000	.17000	19.000	.1519	.1251	.1399	.2715-02	.2236-02	.2501-02	1.599	10.16	546.1
262	.00000	.18000	20.000	.1447	.1192	.1334	.2586-02	.2130-02	.2383-02	1.522	9.680	546.0
262	.00000	.19000	21.000	.1614	.1330	.1490	.2894-02	.2378-02	.2663-02	1.706	10.86	543.3
262	.00000	.20000	22.000	.1430	.1178	.1332	.2556-02	.2106-02	.2362-02	1.506	9.579	545.5

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AEDC WKF V418-57A (OH-498) COLLATION DECK  
OH-498 (AEDC V418-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(ISTO) BTU/ R FT2SEC	H(OTO) BTU/ R FT2SEC	H(UTAM) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	OTADT DEG. R /SEC	TW DEG. R
262	.00000	.22500	23.000	.1325	.1092	.1228	.2368-02	.1951-02	.2194-02	1.397	8.882	544.7
262	.00000	.25000	801.00	.1305	.1075	.1211	.2331-02	.1921-02	.2164-02	1.376	8.753	544.8
262	.00000	.30000	802.00	.1217	.1003	.1130	.2176-02	.1793-02	.2020-02	1.283	8.164	545.0
262	.00000	.35000	803.00	.1243	.1023	.1153	.2221-02	.1829-02	.2061-02	1.307	8.307	546.4
262	.00000	.40000	804.00	.1190	.9860-01	.1104	.2127-02	.1751-02	.1974-02	1.252	8.193	546.2
262	.00000	.45000	805.00	.1115	.9180-01	.1035	.1993-02	.1641-02	.1849-02	1.169	7.878	548.1
262	.00000	.50000	806.00	.9750-01	.8020-01	.9040-01	.1742-02	.1434-02	.1616-02	1.022	7.101	548.0
262	.00000	.55000	807.00	.9480-01	.7800-01	.8790-01	.1693-02	.1393-02	.1571-02	.9910	7.342	549.4
262	.00000	.60000	808.00	.8730-01	.7160-01	.8100-01	.1560-02	.1283-02	.1447-02	.9140	6.767	549.0
262	.00000	.65000	809.00	.8350-01	.6870-01	.7740-01	.1492-02	.1227-02	.1384-02	.8710	6.449	550.7
262	.00000	.70000	810.00	.8190-01	.6730-01	.7590-01	.1466-02	.1203-02	.1357-02	.8550	6.545	550.6
262	.00000	.75000	811.00	.8200-01	.6750-01	.7610-01	.1466-02	.1206-02	.1360-02	.8570	6.340	550.6
262	.00000	.80000	812.00	.8320-01	.6850-01	.7720-01	.1488-02	.1224-02	.1380-02	.8710	6.446	549.7
262	.00000	.85000	813.00	.7810-01	.6430-01	.7220-01	.1396-02	.1148-02	.1309-02	.8170	6.262	549.2
262	.00000	.90000	814.00	.6370-01	.5250-01	.5990-01	.1139-02	.9382-03	.1071-02	.6700	4.808	546.7
262	.00000	.92500	815.00	.2010-01	.1650-01	.1890-01	.3586-03	.2954-03	.3381-03	.2120	1.745	544.6
262	.00000	.95000	816.00	.2610-01	.2150-01	.2470-01	.6577-03	.5412-03	.6231-03	.3950	3.173	545.6
262	.00000	.97500	817.00	.3660-01	.3030-01	.3490-01	.6503-03	.5326-03	.6173-03	.3710	2.728	564.2
262	.00000	1.0150	818.00	.3640-01	.2980-01	.3450-01	.6503-03	.5326-03	.6173-03	.3710	2.728	564.2
262	.00000	1.0300	819.00	.2148	.1757	.2038	.3839-02	.3141-02	.3642-02	2.177	15.98	567.7
262	.00000	1.0500	820.00	.4487	.3659	.4253	.8019-02	.6540-02	.7602-02	4.470	36.56	577.3
262	.00000	1.1000	821.00	.4800-02	.3900-02	.4800-02	.8531-04	.7048-04	.8531-04	.5100-01	.3050	535.2
262	.00000	1.1500	822.00	.8200-02	.6700-02	.8200-02	.1457-03	.1205-03	.1457-03	.8800-01	.5450	533.9
262	.00000	1.2000	823.00	.1060-01	.8700-02	.1060-01	.1892-03	.1564-03	.1892-03	.1140	.6880	533.9
262	.00000	1.2500	824.00	.1195	.9840-01	.1109	.2137-02	.1758-02	.1982-02	1.250	9.911	550.1
262	.00000	1.3000	825.00	.1091	.8970-01	.1012	.1950-02	.1604-02	.1809-02	1.138	9.019	551.4
262	.00000	1.3500	826.00	.7380-01	.6060-01	.6840-01	.1318-02	.1084-02	.1223-02	.7680	6.820	552.0
262	.00000	1.4000	827.00	.8380-01	.6890-01	.7770-01	.1498-02	.1231-02	.1389-02	.8720	6.446	552.8
262	.00000	1.4500	828.00	.8110-01	.6670-01	.7520-01	.1449-02	.1192-02	.1344-02	.8470	6.270	550.2
262	.00000	1.5000	829.00	.6000-01	.4940-01	.5640-01	.1072-02	.8822-03	.1007-02	.6290	4.999	547.4
262	.00000	1.5500	830.00	.1319	.1064	.1315	.2358-02	.1938-02	.2358-02	1.373	10.15	552.5
262	.00000	1.6000	831.00	.1606	.1319	.1606	.2870-02	.2358-02	.2870-02	1.666	12.31	554.2
262	.00000	1.6500	832.00	.5700-01	.4700-01	.5700-01	.1019-02	.8398-03	.1019-02	.6030	4.479	554.0
262	.00000	1.7000	833.00	.8600-02	.7100-02	.8600-02	.1533-03	.1267-03	.1533-03	.9200-01	.5730	534.1
262	.00000	1.7500	834.00	.9380-01	.7730-01	.9380-01	.1677-02	.1381-02	.1677-02	.9860	7.309	547.0
262	.00000	1.8000	835.00	.1171	.9640-01	.1171	.2093-02	.1723-02	.2093-02	1.230	9.123	546.9
262	.00000	1.8500	836.00	.2030-01	.1680-01	.2030-01	.3628-03	.2998-03	.3628-03	.2180	1.626	534.2
262	.00000	1.9000	837.00	.1353	.1114	.1255	.2418-02	.1990-02	.2418-02	1.418	9.853	548.2
262	.00000	1.9500	838.00	.1166	.9590-01	.1086	.2084-02	.1714-02	.2344-02	1.216	8.711	551.0
262	.00000	2.0000	839.00	.9380-01	.8200-01	.9250-01	.1783-02	.1465-02	.1653-02	1.037	6.972	552.9
262	.00000	2.0500	840.00	.7440-01	.6110-01	.6900-01	.1329-02	.1092-02	.1232-02	.7710	5.890	554.2
262	.00000	2.1000	841.00	.7600-01	.6250-01	.7050-01	.358-02	.1117-02	.1259-02	.7940	5.686	550.2
262	.00000	2.1500	842.00	.6670-01	.5490-01	.6270-01	.1192-02	.9810-03	.1120-02	.7000	5.190	547.3

REPRODUCIBILITY OF THE  
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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1827)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
262	32.000	.95000	837.00	.2210-01	.1820-01	.2090-01	.3947-03	.3251-03	.3731-03	.2330	1.736	545.4
262	32.000	.97500	838.00	.1800-01	.1480-01	.1700-01	.3209-03	.2644-03	.3041-03	.2330	1.505	544.9
262	32.000	1.0150	839.00	.2790-01	.2290-01	.2550-01	.4989-03	.4093-03	.4554-03	.2870	2.308	559.3
262	32.000	1.0300	840.00	.3076	.2514	.2802	.5497-02	.4492-02	.5008-02	3.099	23.89	571.1
262	32.000	1.0450	841.00	.4546	.3709	.4139	.8125-02	.6629-02	.7396-02	4.541	34.33	575.9
262	32.000	1.0600	842.00	.3792	.3098	.3454	.6777-02	.5537-02	.6174-02	3.818	31.08	571.3
262	45.000	.92500	969.00	.1040-01	.0860-02	.1040-01	.1851-03	.1529-03	.1651-03	.1110	.9280	534.9
262	45.000	.95000	973.00	.5000-03	.4000-03	.5000-03	.8298-05	.6860-05	.8298-05	.5000-02	.3700-01	533.5
262	45.000	.97500	978.00	.1200-02	.1000-02	.1200-02	.2096-04	.1733-04	.2096-04	.1300-01	.9400-01	532.9
262	75.000	.97500	977.00	.1000-03	.1000-03	.1000-03	.1215-05	.1005-05	.1215-05	.1000-02	.5000-02	532.9
262	85.000	.97500	976.00	.6000-03	.5000-03	.6000-03	.1042-04	.8616-05	.1042-04	.6000-02	.4700-01	532.7
262	180.00	.10000-01	59.000	.1104	.9100-01	.1104	.1972-02	.1627-02	.1972-02	1.170	8.700	541.5
262	180.00	.25000-01	60.000	.3030-01	.2500-01	.3030-01	.5417-03	.4472-03	.5417-03	.3230	2.329	538.3
262	180.00	.50000-01	61.000	.1520-01	.1250-01	.1520-01	.2713-03	.2241-03	.2713-03	.1620	1.035	537.3
262	180.00	.75000-01	62.000	.1050-01	.8700-02	.1050-01	.1876-03	.1550-03	.1876-03	.1120	.7170	536.7
262	180.00	.10000+00	63.000	.1170-01	.9700-02	.1170-01	.2099-03	.1733-03	.2099-03	.1260	.8260	536.6
262	180.00	.12500	64.000	.1670-01	.1380-01	.1670-01	.2992-03	.2472-03	.2992-03	.1790	1.252	536.0
262	180.00	.15000	65.000	.2470-01	.2040-01	.2470-01	.4423-03	.3654-03	.4423-03	.2650	1.851	536.1
262	180.00	.16000	66.000	.5630-01	.4650-01	.5630-01	.1005-02	.8309-03	.1005-02	.6010	3.356	538.0
262	180.00	.17000	67.000	.7530-01	.6210-01	.7530-01	.1345-02	.1111-02	.1345-02	.8030	4.485	538.0
262	180.00	.20000	69.000	.1650-01	.1370-01	.1660-01	.2964-03	.2449-03	.2964-03	.1780	1.105	535.2
262	180.00	.40100	72.000	.3200-02	.2700-02	.3200-02	.5803-04	.4797-04	.5803-04	.3500-01	.2980	533.6
262	180.00	.50000	73.000	.3300-02	.2700-02	.3300-02	.5857-04	.4841-04	.5857-04	.3500-01	.3000	533.9
262	180.00	.60100	74.000	.3900-02	.3200-02	.3900-02	.6950-04	.5745-04	.6950-04	.4200-01	.3450	533.5
262	180.00	.70100	75.000	.3700-02	.3000-02	.3700-02	.6581-04	.5442-04	.6581-04	.4000-01	.3170	532.8

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B27)

FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
BDFLAP = 22.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/1 X10 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
280	7.940	1.032	40.05	.0000	180.0	211.0	.2300-01	1261.	92.60	1.001	3745.	.2055-04
281	7.940	1.023	40.06	.0000	180.0	209.0	.2200-01	1260.	92.60	.9920	3744.	.2037-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
280	.7458-07		.2445-01	0.0175
281	.7454-07		.2433-01	.4008-01
				.4026-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(ISTO) BTU/ R FT2SEC	H(ITO) BTU/ R FT2SEC	H(ITAM) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
280	.00000	.00000	1.0000	.6175	.5074	.5518	.1509-01	.1240-01	.1349-01	8.771	48.62	553.5
280	.00000	.50000-02	2.0000	.7050	.5777	.5777	.1723-01	.1412-01	.1412-01	9.857	67.99	562.6
280	.00000	.10000-01	3.0000	.6137	.5037	.5096	.1500-01	.1231-01	.1246-01	8.661	58.09	557.2
280	.00000	.30000-01	5.0000	.3438	.2837	.2996	.8403-02	.6934-02	.7324-02	5.001	27.92	539.4
280	.00000	.40000-01	6.0000	.2835	.2341	.2500	.6930-02	.5723-02	.6111-02	4.143	23.16	536.7
280	.00000	.50000-01	7.0000	.2776	.2288	.2465	.6786-02	.5592-02	.6026-02	4.007	27.05	544.0
280	.00000	.60000-01	8.0000	.2834	.2337	.2534	.6927-02	.5713-02	.6194-02	4.110	26.20	541.2
280	.00000	.70000-01	9.0000	.2468	.2034	.2220	.6032-02	.4972-02	.5427-02	3.565	24.83	543.4
280	.00000	.80000-01	10.000	.1961	.1618	.1774	.4784-02	.3955-02	.4338-02	2.847	19.86	540.6
280	.00000	.90000-01	11.000	.1900	.1569	.1726	.4296-02	.3545-02	.3916-02	2.557	17.71	537.5
280	.00000	.10000+00	12.000	.1757	.1450	.1602	.3876-02	.3201-02	.3551-02	2.319	15.43	539.4
280	.00000	.12000	14.000	.1585	.1310	.1453	.3789-02	.3129-02	.3477-02	2.264	12.97	536.1
280	.00000	.13000	15.000	.1550	.1280	.1422	.3529-02	.2914-02	.3243-02	2.107	13.32	536.9
280	.00000	.14000	16.000	.1444	.1192	.1327	.3778-02	.3118-02	.3478-02	2.251	13.46	537.5
280	.00000	.16000	18.000	.1423	.1276	.1423	.3689-02	.3044-02	.3400-02	2.196	13.97	538.7
280	.00000	.17000	19.000	.1509	.1245	.1391	.3680-02	.3038-02	.3394-02	2.188	14.01	539.3
280	.00000	.18000	20.000	.1505	.1242	.1388	.3669-02	.3030-02	.3389-02	2.193	13.96	539.8
280	.00000	.19000	21.000	.1501	.1239	.1386	.3449-02	.2846-02	.3190-02	2.052	14.01	536.9
280	.00000	.20000	22.000	.1411	.1164	.1305					13.09	539.5

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(19T) BTU/ R FT2SEC	H(1T0) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
280	.00000	.22500	23.000	.1337	.1103	.1239	.3268-02	.2697-02	.3030-02	1.947	12.43	538.6
280	.00000	.25000	801.00	.1310	.1081	.1216	.3202-02	.2643-02	.2973-02	1.908	12.17	538.7
280	.00000	.30000	802.00	.1204	.9940-01	.1119	.2943-02	.2429-02	.2733-02	1.752	11.17	539.4
280	.00000	.35000	803.00	.1254	.1034	.1164	.3065-02	.2527-02	.2845-02	1.815	11.56	542.6
280	.00000	.40000	804.00	.1226	.1011	.1138	.2997-02	.2471-02	.2782-02	1.773	11.62	542.9
280	.00000	.45000	805.00	.1056	.8710-01	.9800-01	.2583-02	.2128-02	.2397-02	1.524	10.29	544.3
280	.00000	.50000	806.00	.9510-01	.7830-01	.6820-01	.2324-02	.1915-02	.2157-02	1.370	9.536	545.0
280	.00000	.55000	807.00	.9450-01	.7730-01	.6780-01	.2313-02	.1905-02	.2146-02	1.359	10.08	547.0
280	.00000	.60000	808.00	.8610-01	.7090-01	.7990-01	.2105-02	.1733-02	.1953-02	1.236	9.168	547.1
280	.00000	.65000	809.00	.7830-01	.6450-01	.7270-01	.1915-02	.1576-02	.1776-02	1.121	8.307	548.9
280	.00000	.70000	810.00	.7970-01	.6550-01	.7400-01	.1949-02	.1604-02	.1808-02	1.141	8.744	549.1
280	.00000	.75000	811.00	.7570-01	.6230-01	.7020-01	.1851-02	.1523-02	.1717-02	1.084	8.033	548.7
280	.00000	.80000	812.00	.8360-01	.6880-01	.7760-01	.2044-02	.1682-02	.1896-02	1.198	8.872	547.9
280	.00000	.85000	813.00	.7840-01	.6450-01	.7350-01	.1917-02	.1578-02	.1798-02	1.125	8.623	547.9
280	.00000	.90000	814.00	.7390-01	.6080-01	.6950-01	.1806-02	.1487-02	.1693-02	1.062	7.623	546.6
280	.00000	.92500	815.00	.3780-01	.3120-01	.3560-01	.9241-03	.7617-03	.8710-03	.5460	4.508	543.5
280	.00000	.95000	816.00	.3150-01	.2590-01	.2970-01	.7695-03	.6340-03	.7272-03	.4540	3.743	544.9
280	.00000	.97500	817.00	.5320-01	.4380-01	.5040-01	.1301-02	.1070-02	.1232-02	.7620	6.271	548.8
280	.00000	1.0150	818.00	.1898	.1550	.1799	.4639-02	.3790-02	.4399-02	2.608	19.10	572.3
280	.00000	1.0300	819.00	.5179	.4218	.4906	.1266-01	.1031-01	.1199-01	7.010	51.11	580.8
280	.00000	1.0500	821.00	.4524	.3679	.4284	.1106-01	.8992-02	.1047-01	6.063	49.50	586.4
280	.00000	1.5000	89.000	.3100-02	.2500-02	.3100-02	.7483-04	.6202-04	.7483-04	.4600-01	.2780	524.2
280	.00000	2.0000	91.000	.8400-02	.7000-02	.8400-02	.2060-03	.1707-03	.2060-03	.1260	.7860	524.1
280	.00000	5.0000-01	90.000	.1290-01	.1070-01	.1290-01	.3143-03	.2605-03	.3143-03	.1920	1.165	524.8
280	.00000	.40000	823.00	.1150	.9470-01	.1067	.2812-02	.2315-02	.2608-02	1.651	13.12	547.2
280	.00000	.50000	824.00	.1056	.8690-01	.9790-01	.2581-02	.2123-02	.2394-02	1.509	11.97	549.9
280	.00000	.60000	825.00	.7080-01	.5830-01	.6570-01	.1732-02	.1424-02	.1606-02	1.012	8.992	550.1
280	.00000	.70000	826.00	.8440-01	.6940-01	.7830-01	.2063-02	.1697-02	.1913-02	1.205	8.922	550.4
280	.00000	.80000	827.00	.7970-01	.6560-01	.7390-01	.1949-02	.1604-02	.1808-02	1.142	8.458	548.7
280	.00000	.90000	828.00	.6500-01	.5350-01	.6110-01	.1588-02	.1307-02	.1492-02	.9330	7.417	546.7
280	.00000	.92500	829.00	.1704	.1400	.1704	.4166-02	.3422-02	.4166-02	2.415	17.83	555.0
280	.00000	.95000	830.00	.2204	.1810	.2204	.5383-02	.4426-02	.5383-02	3.124	23.08	554.7
280	.00000	.97500	831.00	.1200	.9900-01	.1200	.2933-02	.2419-02	.2933-02	1.740	12.94	541.2
280	.00000	2.0000	93.000	.9800-02	.8100-02	.9800-02	.2401-03	.1990-03	.2401-03	.1470	.9160	524.1
280	.00000	.30000	970.00	.1387	.1142	.1387	.3390-02	.2792-02	.3390-02	1.995	14.80	546.2
280	.00000	.95000	974.00	.1624	.1337	.1624	.3969-02	.3267-02	.3969-02	2.330	17.27	547.5
280	.00000	.97500	979.00	.5210-01	.4320-01	.5210-01	.1274-02	.1056-02	.1274-02	.7760	5.818	525.3
280	.00000	.40000	.83100+10	.1360	.1121	.1262	.3325-02	.2740-02	.3086-02	1.962	13.66	544.4
280	.00000	.50000	832.00	.1190	.9790-01	.1104	.2910-02	.2394-02	.2699-02	1.703	12.21	549.3
280	.00000	.60000	833.00	.1021	.8390-01	.5460-01	.2495-02	.2052-02	.2313-02	1.455	9.791	551.1
280	.00000	.70000	834.00	.9170-01	.7540-01	.8500-01	.2242-02	.1642-02	.2078-02	1.301	9.948	554.1
280	.00000	.80000	835.00	.7310-01	.6010-01	.6780-01	.1786-02	.1469-02	.1656-02	1.045	7.490	549.4
280	.00000	.90000	836.00	.6580-01	.5420-01	.6180-01	.1608-02	.1324-02	.1511-02	.9470	7.026	545.6

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1827)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
280	32.000	.95000	837.00	.3960-01	.3260-01	.3740-01	.9682-03	.7980-03	.9151-03	.5720	4.399	543.3
280	32.000	.97500	838.00	.3340-01	.2750-01	.3160-01	.8158-03	.6721-03	.7730-03	.4810	3.826	544.9
280	32.000	1.0150	839.00	.2132	.1736	.1938	.5211-02	.4244-02	.4739-02	2.884	22.94	581.0
280	32.000	1.0300	840.00	.5763	.4675	.5230	.1409-01	.1143-01	.1279-01	7.633	58.23	592.7
280	32.000	1.0450	841.00	.5670	.4606	.5149	.1386-01	.1126-01	.1259-01	7.565	56.83	588.7
280	32.000	1.0600	842.00	.4007	.3267	.3646	.9795-02	.7986-02	.8912-02	5.452	44.23	577.9
280	45.000	.92500	859.00	.1810-01	.1500-01	.1810-01	.4435-03	.3674-03	.4435-03	.2700	2.022	526.2
280	45.000	.95000	973.00	.1300-02	.1000-02	.1300-02	.3069-04	.2544-04	.3069-04	.1900-01	.1400	524.5
280	45.000	.97500	978.00	.1100-02	.9000-03	.1100-02	.2598-04	.2153-04	.2598-04	.1600-01	.1190	523.8
280	75.000	.97500	977.00	.6000-03	.5000-03	.6000-03	.1455-04	.1206-04	.1455-04	.9000-02	.6700-01	523.9
280	85.000	.97500	976.00	.7000-03	.6000-03	.7000-03	.1721-04	.1426-04	.1721-04	.1100-01	.7900-01	523.7
280	180.00	.10000-01	59.000	.1082	.6940-01	.1082	.2644-02	.2186-02	.2644-02	1.592	11.89	532.3
280	180.00	.25000-01	60.000	.2820-01	.2330-01	.2820-01	.6890-03	.5705-03	.6890-03	.4180	3.031	527.5
280	180.00	.50000-01	61.000	.1460-01	.1210-01	.1460-01	.3576-03	.2962-03	.3576-03	.2180	1.397	526.3
280	180.00	.75000-01	62.000	.1140-01	.9500-02	.1140-01	.2792-03	.2313-03	.2792-03	.1700	1.092	525.9
280	180.00	.10000-00	63.000	.1510-01	.1250-01	.1510-01	.3701-03	.3066-03	.3701-03	.2250	1.488	526.3
280	180.00	.12500	64.000	.2180-01	.1800-01	.2180-01	.5321-03	.4407-03	.5321-03	.3240	2.273	526.3
280	180.00	.15000	65.000	.3140-01	.2600-01	.3140-01	.7679-03	.6360-03	.7679-03	.4670	3.280	526.5
280	180.00	.16000	66.000	.8810-01	.7290-01	.8810-01	.2154-02	.1782-02	.2154-02	1.302	7.300	530.2
280	180.00	.17000	67.000	.9440-01	.7810-01	.9440-01	.2307-02	.1909-02	.2307-02	1.393	7.807	531.0
280	180.00	.20000	69.000	.2010-01	.1660-01	.2010-01	.4904-03	.4063-03	.4904-03	.2990	1.865	525.8
280	180.00	.40100	72.000	.3400-02	.2800-02	.3400-02	.8243-04	.6832-04	.8243-04	.5000-01	.4320	524.5
280	180.00	.50000	73.000	.4400-02	.3600-02	.4400-02	.1067-03	.8843-04	.1067-03	.6500-01	.5590	524.7
280	180.00	.60100	74.000	.4200-02	.3500-02	.4200-02	.1028-03	.8516-04	.1028-03	.6300-01	.5210	524.7
280	180.00	.70100	75.000	.3700-02	.3100-02	.3700-02	.9035-04	.7490-04	.9035-04	.5500-01	.4450	523.4

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 5.000 SPDBRK = .0000  
 BDFLAP = 22.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
296	7.980	1.966	40.10	.0000	180.0	429.6	.4500-01	1306.	95.10	1.994	3813.	.3947-04
297	7.980	1.977	40.09	.0000	180.0	430.3	.4500-01	1303.	94.80	1.997	3808.	.3964-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =	HREF BTU/ R FT2SEC
296	.7655-07	.3471-01	0.0175	
297	.7635-07	.3472-01	.2896-01	

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H19T01 BTU/ R FT2SEC	H1T01 BTU/ R FT2SEC	H1TAM BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
296	.00000	.00000	1.0000	.6037	.4966	.5399	.2095-01	.1723-01	.1874-01	12.68	69.72	570.1
296	.00000	.50000-02	2.0000	.7038	.5766	.5766	.2442-01	.2001-01	.2001-01	14.46	98.70	583.4
296	.00000	.10000-01	3.0000	.6255	.5135	.5194	.2171-01	.1782-01	.1803-01	13.00	86.31	576.8
296	.00000	.30000-01	5.0000	.3353	.2773	.2926	.1164-01	.9623-02	.1016-01	7.268	40.34	550.8
296	.00000	.40000-01	6.0000	.3102	.2568	.2739	.1077-01	.8913-02	.9507-02	6.761	37.59	547.5
296	.00000	.50000-01	7.0000	.2730	.2254	.2427	.9475-02	.7821-02	.8422-02	5.853	39.24	557.8
296	.00000	.60000-01	8.0000	.2807	.2319	.2512	.9741-02	.8050-02	.8719-02	6.054	38.35	553.9
296	.00000	.70000-01	9.0000	.2488	.2054	.2240	.8635-02	.7129-02	.7775-02	5.337	36.91	557.4
296	.00000	.80000-01	10.0000	.1993	.1639	.1796	.6893-02	.5689-02	.6232-02	4.283	29.68	553.2
296	.00000	.90000-01	11.0000	.1920	.1589	.1746	.5663-02	.5514-02	.6059-02	4.175	26.51	548.9
296	.00000	.10000+00	12.0000	.1738	.1438	.1586	.6031-02	.4990-02	.5503-02	3.776	22.67	549.4
296	.00000	.12000	14.0000	.1599	.1324	.1467	.5548-02	.4596-02	.5090-02	3.496	19.46	545.4
296	.00000	.13000	15.0000	.1545	.1279	.1419	.5361-02	.4439-02	.4925-02	3.372	19.74	546.5
296	.00000	.14000	16.0000	.1437	.1190	.1322	.4989-02	.4130-02	.4588-02	3.132	19.90	547.6
296	.00000	.16000	18.0000	.1544	.1278	.1423	.5359-02	.4434-02	.4938-02	3.354	20.69	549.7
296	.00000	.17000	19.0000	.1529	.1265	.1411	.5308-02	.4390-02	.4896-02	3.315	21.02	551.0
296	.00000	.18000	20.0000	.1494	.1235	.1379	.5184-02	.4287-02	.4785-02	3.233	20.50	551.8
296	.00000	.19000	21.0000	.1484	.1229	.1372	.5151-02	.4264-02	.4763-02	3.233	20.54	547.7
296	.00000	.20000	22.0000	.1438	.1189	.1330	.4990-02	.4126-02	.4617-02	3.112	19.73	551.7

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CH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(970) BTU/ R FT2SEC	H(101) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ SEC	OTWOT DEG. R /SEC	TH DEG. R
296	.00000	.22500	23.000	.1332	.1101	.1235	.4622-02	.3823-02	.4288-02	2.887	18.31	550.8
296	.00000	.25000	801.00	.1290	.1067	.1199	.4478-02	.3703-02	.4161-02	2.794	17.71	551.6
296	.00000	.30000	802.00	.1202	.9930-01	.1117	.4171-02	.3447-02	.3875-02	2.595	16.44	553.3
296	.00000	.35000	803.00	.1288	.1063	.1195	.4469-02	.3688-02	.4149-02	2.758	17.43	558.2
296	.00000	.40000	804.00	.1212	.1000+00	.1126	.4208-02	.3472-02	.3906-02	2.592	16.86	559.3
296	.00000	.45000	805.00	.1077	.8880-01	.1000+00	.3739-02	.3081-02	.3469-02	2.289	15.30	563.2
296	.00000	.50000	806.00	.9710-01	.8000-01	.9010-01	.3369-02	.2775-02	.3126-02	2.057	14.17	564.8
296	.00000	.55000	807.00	.9380-01	.7720-01	.8700-01	.3255-02	.2525-02	.2846-02	1.975	14.49	568.6
296	.00000	.60000	808.00	.8840-01	.7280-01	.8200-01	.3069-02	.2525-02	.2846-02	1.860	13.64	569.3
296	.00000	.65000	809.00	.8700-01	.7150-01	.8060-01	.3018-02	.2480-02	.2797-02	1.819	13.31	572.8
296	.00000	.70000	810.00	.9020-01	.7410-01	.8350-01	.3132-02	.2573-02	.2902-02	1.883	14.24	574.4
296	.00000	.75000	811.00	.1042	.8560-01	.9650-01	.3616-02	.2970-02	.3351-02	2.171	15.88	575.0
296	.00000	.80000	812.00	.1221	.1003	.1132	.4238-02	.3482-02	.3928-02	2.548	18.64	574.2
296	.00000	.85000	813.00	.1308	.1074	.1225	.4539-02	.3729-02	.4252-02	2.727	20.63	574.5
296	.00000	.90000	814.00	.1387	.1140	.1303	.4814-02	.3957-02	.4521-02	2.905	20.58	572.0
296	.00000	.92500	815.00	.1210	.9950-01	.1139	.4198-02	.3453-02	.3954-02	2.542	20.71	569.8
296	.00000	.95000	816.00	.1314	.1080	.1241	.4562-02	.3749-02	.4307-02	2.749	22.36	572.8
296	.00000	.97500	817.00	.1489	.1221	.1409	.5168-02	.4239-02	.4889-02	3.081	24.97	579.3
296	.00000	1.0150	818.00	.5482	.4427	.5180	.1903-01	.1536-01	.1798-01	10.42	74.26	627.6
296	.00000	1.0300	819.00	.6299	.5089	.5952	.2186-01	.1766-01	.2066-01	12.00	85.59	626.3
296	.00000	1.0600	821.00	.4499	.3634	.4251	.1561-01	.1261-01	.1475-01	8.573	69.19	626.4
296	.00000	1.1500	83.000	.5700-02	.4800-02	.5700-02	.1984-03	.1650-03	.1984-03	1.280	7.750	531.0
296	.00000	2.0000	91.000	.8700-02	.7200-02	.8700-02	.3005-03	.2498-03	.3005-03	1.930	1.204	531.8
296	.00000	5.0000-01	90.000	.8200-02	.6800-02	.8200-02	.2848-03	.2367-03	.2848-03	1.830	1.108	532.9
296	.00000	.40000	823.00	.1144	.9420-01	.1361	.3971-02	.3270-02	.3684-02	2.421	19.06	565.7
296	.00000	.50000	824.00	.1033	.8500-01	.9580-01	.3586-02	.2949-02	.3325-02	2.170	17.03	570.5
296	.00000	.60000	825.00	.7080-01	.5820-01	.6560-01	.2458-02	.2020-02	.2278-02	1.481	13.00	573.1
296	.00000	.70000	826.00	.9630-01	.7960-01	.8980-01	.3364-02	.2762-02	.3117-02	2.015	14.72	576.6
296	.00000	.80000	827.00	.1152	.9470-01	.1068	.3998-02	.3285-02	.3705-02	2.405	17.59	574.0
296	.00000	.90000	828.00	.1210	.9350-01	.1136	.4199-02	.3452-02	.3944-02	2.534	19.88	572.1
296	.00000	.92500	971.00	.1864	.1531	.1864	.6469-02	.5313-02	.6469-02	3.882	28.38	575.3
296	.00000	.95000	975.00	.2287	.1876	.2287	.7937-02	.6510-02	.7937-02	4.731	34.52	579.3
296	.00000	.97500	980.00	.1586	.1309	.1586	.5506-02	.4542-02	.5506-02	3.387	24.95	580.2
296	.00000	2.0000	93.000	.1100-01	.9100-02	.1100-01	.3808-03	.3166-03	.3808-03	2.450	1.527	531.5
296	.00000	.92500	970.00	.1583	.1304	.1583	.5495-02	.4527-02	.5495-02	3.357	24.68	584.4
296	.00000	.95000	974.00	.1779	.1464	.1779	.6174-02	.5082-02	.6174-02	3.751	27.52	587.9
296	.00000	.97500	979.00	.5280-01	.4380-01	.5280-01	.1833-02	.1521-02	.1833-02	1.167	8.691	538.6
296	.00000	.83100+10	832.00	.1332	.1099	.1236	.4622-02	.3812-02	.4291-02	2.842	19.62	580.7
296	.00000	.40000	833.00	.1147	.9440-01	.1064	.3982-02	.3277-02	.3693-02	2.416	17.14	568.9
296	.00000	.60000	833.00	.1002	.8230-01	.9290-01	.3478-02	.2857-02	.3223-02	2.091	13.91	574.2
296	.00000	.70000	834.00	.8580-01	.7040-01	.7940-01	.2977-02	.2442-02	.2757-02	1.774	13.38	579.7
296	.00000	.80000	835.00	.1018	.8370-01	.9440-01	.3534-02	.2904-02	.3275-02	2.125	15.04	574.2
296	.00000	.90000	836.00	.1167	.9630-01	.1096	.4050-02	.3332-02	.3805-02	2.454	17.99	569.5

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1827)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(970) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TM DEG. R
296	32.000	.95000	837.00	.1366	.1124	.1290	.4743-02	.3901-02	.4479-02	2.872	21.78	559.8
296	32.000	.97500	838.00	.1315	.1081	.1245	.4565-02	.3751-02	.4321-02	2.748	21.55	573.4
296	32.000	1.0150	839.00	.5794	.4641	.5225	.2011-01	.1611-01	.1813-01	10.57	81.28	649.9
296	32.000	1.0300	840.00	.6081	.4891	.5454	.2110-01	.1697-01	.1907-01	11.33	84.50	639.7
296	32.000	1.0450	841.00	.5616	.4529	.5081	.1949-01	.1572-01	.1763-01	10.60	77.99	631.6
296	32.000	1.0600	842.00	.4169	.3379	.3781	.1447-01	.1173-01	.1312-01	8.084	64.34	616.7
296	45.000	.92500	969.00	.2760-01	.2290-01	.2780-01	.9565-03	.7940-03	.9565-03	.6100	4.548	537.3
296	45.000	.95000	973.00	.1600-02	.1300-02	.1600-02	.5580-04	.4636-04	.5580-04	.3600-01	.2670	533.8
296	45.000	.97500	978.00	.1200-02	.1000-02	.1200-02	.4200-04	.3490-04	.4200-04	.2700-01	.2010	533.1
296	75.000	.97500	977.00	.2000-03	.2000-03	.2000-03	.8350-05	.6939-05	.8350-05	.5000-02	.4000-01	533.1
296	85.000	.97500	976.00	.8000-03	.7000-03	.8000-03	.2802-04	.2329-04	.2802-04	.1800-01	.1340	532.8
296	180.00	.10600-01	59.000	.1020	.8460-01	.1020	.3540-02	.2938-02	.3540-02	2.256	16.81	538.0
296	180.00	.25000-01	60.000	.2610-01	.2170-01	.2610-01	.9051-03	.7522-03	.9051-03	.5820	4.204	532.8
296	180.00	.50000-01	61.000	.1350-01	.1120-01	.1350-01	.4672-03	.3883-03	.4672-03	.3000	1.924	532.4
296	180.00	.75000-01	62.000	.1270-01	.1060-01	.1270-01	.4410-03	.3665-03	.4410-03	.2830	1.814	533.0
296	180.00	.10000-00	63.000	.2130-01	.1770-01	.2130-01	.7395-03	.6144-03	.7395-03	.4740	3.125	533.9
296	180.00	.12500	64.000	.2590-01	.2150-01	.2590-01	.8992-03	.7461-03	.8992-03	.5760	4.627	534.5
296	180.00	.15000	65.000	.3700-01	.3080-01	.3700-01	.1285-02	.1067-02	.1285-02	.8230	5.753	535.2
296	180.00	.16000	66.000	.9640-01	.7990-01	.9640-01	.3346-02	.2774-02	.3346-02	2.121	11.83	541.4
296	180.00	.17000	67.000	.1118	.9270-01	.1118	.3880-02	.3217-02	.3880-02	2.459	13.71	541.7
296	180.00	.20000	69.000	.1960-01	.1630-01	.1960-01	.6797-03	.5648-03	.6797-03	.4360	2.714	533.6
296	180.00	.40100	72.000	.5200-02	.4300-02	.5200-02	.1806-03	.1501-03	.1806-03	.1160	.9930	532.4
296	180.00	.50000	73.000	.5700-02	.4800-02	.5700-02	.1985-03	.1650-03	.1985-03	.1280	1.090	532.5
296	180.00	.60100	74.000	.5300-02	.4400-02	.5300-02	.1847-03	.1535-03	.1847-03	.1190	.9820	532.8
296	180.00	.70100	75.000	.4400-02	.3700-02	.4400-02	.1539-03	.1280-03	.1539-03	.9900-01	.7950	531.3

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1827)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
BOFLAP = 22.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
328	7.990	2.991	40.01	.0000	180.0	676.7	.7000-01	1334.	96.90	3.123	3853.	.6053-04
329	7.990	2.987	40.03	.0000	180.0	677.0	.7000-01	1335.	97.00	3.124	3855.	.6049-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR R =
328	7.990-07	.4359-01	0.0175
329	.7806-07	.4361-01	.2349-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(ISTO) BTU/ R FT2SEC	H(UTO) BTU/ R FT2SEC	H(UTAJ) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
328	.00000	.00000	1.0000	.5984	.4916	.5346	.2609-01	.2143-01	.2330-01	16.00	87.25	586.7
328	.00000	.50000-02	2.0000	.6949	.5675	.5675	.3029-01	.2474-01	.2474-01	18.00	121.5	606.0
328	.00000	.10000-01	3.0000	.6199	.5077	.5137	.2702-01	.2213-01	.2239-01	16.30	107.2	596.9
328	.00000	.20000-01	4.0000	.4407	.3639	.3782	.1921-01	.1586-01	.1649-01	12.13	66.69	569.1
328	.00000	.30000-01	5.0000	.3366	.2784	.2939	.1467-01	.1214-01	.1281-01	9.357	51.70	561.8
328	.00000	.40000-01	6.0000	.2882	.2387	.2547	.1256-01	.1041-01	.1110-01	8.075	44.67	557.5
328	.00000	.50000-01	7.0000	.2753	.2272	.2447	.1200-01	.9903-02	.1067-01	7.554	50.32	570.7
328	.00000	.60000-01	8.0000	.2779	.2297	.2488	.1212-01	.1001-01	.1085-01	7.685	48.38	565.9
328	.00000	.70000-01	9.0000	.2462	.2032	.2217	.1073-01	.8856-02	.9663-02	6.758	46.43	570.4
328	.00000	.80000-01	10.000	.1968	.1627	.1783	.8579-02	.7092-02	.7772-02	5.456	37.60	564.2
328	.00000	.90000-01	11.000	.1874	.1552	.1705	.8170-02	.6763-02	.7433-02	5.239	33.09	559.0
328	.00000	1.0000+00	12.000	.1766	.1462	.1612	.7697-02	.6372-02	.7028-02	4.934	29.48	559.2
328	.00000	.12000	14.000	.1607	.1332	.1475	.7004-02	.5805-02	.6429-02	4.525	25.08	554.0
328	.00000	.13000	15.000	.1548	.1283	.1423	.6748-02	.5591-02	.6204-02	4.350	25.35	555.6
328	.00000	.14000	16.000	.1449	.1201	.1334	.6319-02	.5234-02	.5815-02	4.065	25.71	556.9
328	.00000	.15000	18.000	.1511	.1251	.1393	.6587-02	.5451-02	.6072-02	4.217	25.88	560.1
328	.00000	.17000	19.000	.1481	.1225	.1367	.6457-02	.5342-02	.5958-02	4.123	26.01	561.7
328	.00000	.18000	20.000	.1496	.1237	.1382	.6523-02	.5394-02	.6023-02	4.158	26.22	562.8
328	.00000	.19000	21.000	.1483	.1228	.1372	.6466-02	.5353-02	.5981-02	4.146	26.19	559.0



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) OFB/ITER FUSELAGE

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(RV1827)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H19TO BTU/R FT/SEC	H1TO BTU/R FT/SEC	H1TAN BTU/R FT/SEC	QDOT BTU/ FT/SEC	DTMDT DEG/R /SEC	TW DEG/R
328	.00000	.20000	22.000	.1426	.1179	.1320	.6217-02	.5141-02	.5755-02	3.964	24.99	562.6
328	.00000	.22500	23.000	.1310	.1084	.1216	.5711-02	.4725-02	.5301-02	3.648	23.02	561.4
328	.00000	.25000	801.00	.1277	.1057	.1186	.5569-02	.4606-02	.5177-02	3.551	22.40	562.5
328	.00000	.30000	802.00	.1203	.9940-01	.1116	.5244-02	.4335-02	.4873-02	3.334	21.00	564.5
328	.00000	.35000	803.00	.1281	.1057	.1190	.5534-02	.4607-02	.5185-02	3.513	22.06	571.1
328	.00000	.40000	804.00	.1213	.1000+00	.1126	.5255-02	.4360-02	.4908-02	3.318	21.43	572.5
328	.00000	.45000	805.00	.1090	.8990-01	.1011	.4750-02	.3915-02	.4409-02	2.968	19.73	575.3
328	.00000	.50000	806.00	.1009	.8310-01	.9360-01	.4337-02	.3621-02	.4081-02	2.736	18.73	577.9
328	.00000	.55000	807.00	.1008	.8950-01	.9350-01	.4394-02	.3613-02	.4075-02	2.710	19.73	583.5
328	.00000	.60000	808.00	.1096	.9010-01	.1016	.4778-02	.3927-02	.4430-02	2.937	21.36	585.6
328	.00000	.65000	809.00	.1581	.1235	.1454	.6892-02	.5644-02	.6381-02	4.158	30.08	596.8
328	.00000	.70000	810.00	.2507	.2044	.2317	.1333-01	.6911-02	.1010-01	6.440	47.85	610.9
328	.00000	.75000	811.00	.3190	.2537	.2946	.1331-01	.1132-01	.1284-01	8.112	58.10	616.9
328	.00000	.80000	812.00	.3373	.2744	.3114	.1470-01	.1133-01	.1359-01	8.555	61.23	618.4
328	.00000	.85000	813.00	.3204	.2607	.2893	.1327-01	.1136-01	.1305-01	8.124	60.15	618.5
328	.00000	.90000	814.00	.3035	.2475	.2844	.1324-01	.1079-01	.1240-01	7.784	54.08	612.1
328	.00000	.92500	815.00	.2650	.2164	.2491	.1155-01	.9434-02	.1086-01	6.858	54.85	606.6
328	.00000	.95000	816.00	.2714	.2211	.2566	.1183-01	.9640-02	.1114-01	6.942	55.34	613.4
328	.00000	.97500	817.00	.2862	.2325	.2701	.1247-01	.1014-01	.1177-01	7.308	57.20	622.4
328	.00000	1.0150	818.00	.5739	.4590	.5410	.2502-01	.2001-01	.2319-01	13.34	93.23	667.1
328	.00000	1.0300	819.00	.5637	.4525	.5319	.2457-01	.1973-01	.2358-01	13.34	93.71	657.3
328	.00000	1.0600	821.00	.4161	.3339	.3926	.1814-01	.1455-01	.1712-01	9.816	77.99	659.1
328	.00000	1.5000	89.000	.4800-02	.4000-02	.4800-02	.2101-01	.1750-03	.2101-03	.1400	.8450	535.1
328	.00000	2.0000	91.000	.7800-02	.6500-02	.7800-02	.3412-03	.2842-03	.3412-03	.2270	1.410	535.4
328	.00000	5.0000-01	90.000	.9400-02	.7800-02	.9400-02	.4033-03	.3409-03	.4033-03	.2720	1.645	535.5
328	.00000	4.0000	823.00	.1122	.9230-01	.1071	.4632-02	.4025-02	.4538-02	3.030	23.67	580.8
328	.00000	5.0000	824.00	.1059	.8730-01	.9820-01	.4617-02	.3733-02	.4280-02	2.832	22.06	586.9
328	.00000	6.0000	825.00	.7910-01	.6490-01	.7330-01	.3448-02	.2829-02	.3195-02	2.104	18.32	590.1
328	.00000	7.0000	826.00	.3116	.2537	.2876	.1353-01	.1106-01	.1255-01	7.941	56.91	615.6
328	.00000	8.0000	827.00	.3344	.2722	.3038	.1459-01	.1187-01	.1346-01	8.513	61.00	616.1
328	.00000	9.0000	828.00	.2616	.2133	.2431	.1140-01	.9298-02	.1058-01	6.716	51.68	611.3
328	.00000	9.5000	971.00	.1847	.1514	.1847	.8051-02	.6593-02	.8051-02	4.877	35.32	594.4
328	.00000	9.5000	972.00	.2372	.1940	.2372	.1034-01	.8456-02	.1034-01	6.184	44.62	602.2
328	.00000	9.5000	980.00	.1614	.1330	.1614	.7037-02	.5796-02	.7037-02	4.383	32.01	577.3
328	.00000	9.5000	93.000	.1290-01	.1070-01	.1290-01	.5602-03	.4666-03	.5602-03	.3720	2.314	535.7
328	.00000	9.5000	970.00	.1461	.1203	.1461	.6370-02	.5243-02	.6370-02	3.953	28.84	579.6
328	.00000	9.5000	974.00	.1696	.1393	.1696	.7335-02	.6074-02	.7335-02	4.537	32.98	586.7
328	.00000	9.5000	979.00	.5200-01	.4320-01	.5200-01	.2257-02	.1882-02	.2257-02	1.479	25.08	547.8
328	.00000	.83100+10	831.00	.1105	.1105	.1244	.5843-02	.4817-02	.5424-02	3.657	20.96	574.3
328	.00000	5.0000	832.00	.1129	.9360-01	.1036	.4955-02	.4081-02	.4603-02	3.055	21.51	584.8
328	.00000	6.0000	833.00	.1128	.9250-01	.1045	.4916-02	.4033-02	.4554-02	2.994	19.74	591.2
328	.00000	7.0000	834.00	.1123	.1123	.1270	.5982-02	.4894-02	.5536-02	3.588	26.80	600.4
328	.00000	8.0000	835.00	.2332	.1954	.2212	.1043-01	.8518-02	.9644-02	6.201	43.22	605.6

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

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(RV1827)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
328	32.000	.90000	836.00	.2727	.2226	.2556	.1189-01	.9702-02	.1114-01	7.042	50.65	607.8
328	32.000	.95000	837.00	.2817	.2301	.2656	.1228-01	.1003-01	.1158-01	7.302	54.40	605.6
328	32.000	.97500	838.00	.2829	.2304	.2672	.1233-01	.1004-01	.1165-01	7.225	55.52	614.3
328	32.000	1.0150	839.00	.5627	.4461	.5050	.2453-01	.1945-01	.2201-01	12.51	94.35	690.3
328	32.000	1.0300	840.00	.5199	.4157	.4686	.2266-01	.1812-01	.2043-01	12.05	88.64	668.4
328	32.000	1.0450	841.00	.5163	.4132	.4656	.2251-01	.1801-01	.2029-01	12.03	87.11	665.5
328	32.000	1.3600	842.00	.3927	.3162	.3552	.1712-01	.1379-01	.1548-01	9.445	74.03	648.4
328	45.000	.92500	959.00	.3040-01	.2530-01	.3040-01	.1326-02	.1102-02	.1326-02	.8680	6.436	546.0
328	45.000	.95000	973.00	.2100-02	.1800-02	.2100-02	.9227-04	.7675-04	.9227-04	.6100-01	.4530	540.7
328	45.000	.97500	978.00	.1600-02	.1400-02	.1600-02	.7112-04	.5916-04	.7112-04	.4700-01	.3490	540.1
328	75.000	.97500	977.00	.3000-03	.3000-03	.3000-03	.1430-04	.1189-04	.1430-04	.9000-02	.7000-01	540.1
328	85.000	.97500	976.00	.5000-03	.7000-03	.9000-03	.3853-04	.3206-04	.3853-04	.2500-01	.1890	539.6
328	180.00	.10000-01	59.000	.1016	.8440-01	.1016	.4430-02	.3681-02	.4430-02	2.905	21.57	544.4
328	180.00	.25000-01	60.000	.2500-01	.2080-01	.2500-01	.1091-02	.9082-03	.1091-02	.7230	5.216	537.2
328	180.00	.50000-01	61.000	.1300-01	.1030-01	.1300-01	.5682-03	.4732-03	.5682-03	.3770	2.412	536.0
328	180.00	.75000-01	62.000	.1430-01	.1190-01	.1430-01	.5223-03	.5181-03	.6223-03	.4130	2.637	536.8
328	180.00	.10000+00	63.000	.2420-01	.2010-01	.2420-01	.1055-02	.8783-03	.1055-02	.6990	4.592	538.1
328	180.00	.12500	64.000	.2890-01	.2400-01	.2890-01	.1260-02	.1048-02	.1260-02	.8320	5.803	539.4
328	180.00	.15000	65.000	.3570-01	.2970-01	.3570-01	.1555-02	.1294-02	.1555-02	1.026	7.158	540.3
328	180.00	.16000	66.000	.8860-01	.7360-01	.8860-01	.3864-02	.3206-02	.3864-02	2.322	14.02	547.3
328	180.00	.17000	67.000	.1171	.9720-01	.1171	.5103-02	.4236-02	.5103-02	3.326	18.48	548.4
328	180.00	.20000	69.000	.1670-01	.1390-01	.1670-01	.7290-03	.6068-03	.7290-03	.4830	2.999	537.6
328	180.00	.40100	72.000	.5500-02	.4600-02	.5500-02	.2409-03	.2006-03	.2409-03	.1600	1.362	537.0
328	180.00	.50000	73.000	.7100-02	.5900-02	.7100-02	.3104-03	.2584-03	.3104-03	.2060	1.751	537.9
328	180.00	.60100	74.000	.6500-02	.5400-02	.6500-02	.2830-03	.2356-03	.2830-03	.1870	1.545	538.0
328	180.00	.70100	75.000	.4400-02	.3600-02	.4400-02	.1896-03	.1579-03	.1896-03	.1260	1.005	536.8

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

AEDC VKF V41B-57A (OH-498) COLLATION DECK  
OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

FUSELAGE

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 5.000 SPOBRK = .0000  
BOFLAP = 22.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
304	8.000	3.765	40.12	.0000	180.0	859.8	.8800-01	1339.	97.00	3.945	3861.	.7617-04
305	8.000	3.790	40.10	.0000	180.0	859.8	.8800-01	1333.	96.60	3.945	3853.	.7650-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
304	.7810-07	.4903-01	0.0175
305	.7777-07	.4899-01	.2089-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DT/DT DEG. R /SEC	TM DEG. R
304	.00000	.00000	1.0000	.5924	.4854	.5286	.2905-01	.2380-01	.2592-01	17.64	95.67	597.5
304	.00000	.50000-02	2.0000	.6989	.5691	.5691	.3427-01	.2790-01	.2790-01	20.12	135.0	617.8
304	.00000	.10000-01	3.0000	.6237	.5094	.5154	.3058-01	.2498-01	.2527-01	18.23	119.2	608.6
304	.00000	.20000-01	4.0000	.4358	.3589	.3731	.2137-01	.1760-01	.1830-01	13.36	73.10	579.5
304	.00000	.30000-01	5.0000	.3364	.2776	.2931	.1649-01	.1361-01	.1437-01	10.44	57.31	572.1
304	.00000	.40000-01	6.0000	.2854	.2359	.2517	.1399-01	.1156-01	.1234-01	8.920	49.10	567.4
304	.00000	.50000-01	7.0000	.2732	.2249	.2424	.1340-01	.1103-01	.1189-01	8.347	55.30	581.8
304	.00000	.60000-01	8.0000	.2816	.2321	.2516	.1381-01	.1138-01	.1234-01	8.677	54.34	576.4
304	.00000	.70000-01	9.0000	.2433	.2003	.2187	.1193-01	.9822-02	.1072-01	7.438	50.82	581.5
304	.00000	.80000-01	10.000	.1978	.1631	.1789	.9698-02	.7959-02	.8771-02	6.113	41.91	574.5
304	.00000	.90000-01	11.000	.1865	.1540	.1694	.9143-02	.7553-02	.8306-02	5.816	36.56	538.7
304	.00000	.10000+00	12.000	.1766	.1459	.1610	.8659-02	.7152-02	.7893-02	5.504	32.73	569.1
304	.00000	.12000	14.000	.1600	.1324	.1467	.7846-02	.6491-02	.7193-02	5.032	27.75	563.5
304	.00000	.13000	15.000	.1524	.1261	.1399	.7474-02	.6181-02	.6862-02	4.781	27.73	565.2
304	.00000	.14000	16.000	.1427	.1179	.1311	.6995-02	.5783-02	.6429-02	4.466	28.11	566.4
304	.00000	.16000	18.000	.1536	.1269	.1414	.7532-02	.6221-02	.6934-02	4.782	29.21	570.0
304	.00000	.17000	19.000	.1493	.1233	.1376	.7322-02	.6043-02	.6746-02	4.633	29.08	572.0
304	.00000	.18000	20.000	.1531	.1263	.1411	.7505-02	.6193-02	.6920-02	4.743	29.76	572.9
304	.00000	.19000	21.000	.1376	.1137	.1271	.6748-02	.5575-02	.6233-02	4.293	26.99	568.6

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
304	.00000	.20000	22.000	.1428	.1179	.1320	.7004-02	.5780-02	.6474-02	4.428	27.78	572.7
304	.00000	.22500	23.000	.1299	.1073	.1205	.6371-02	.5260-02	.5905-02	4.408	25.36	571.0
304	.00000	.25000	801.00	.1279	.1056	.1187	.6271-02	.5176-02	.5822-02	3.968	24.90	572.1
304	.00000	.30000	802.00	.1214	.1032	.1127	.5953-02	.4912-02	.5526-02	3.759	23.57	573.5
304	.00000	.35000	803.00	.1258	.1036	.1167	.6169-02	.5080-02	.5722-02	3.853	24.09	580.2
304	.00000	.40000	804.00	.1241	.1022	.1151	.6086-02	.5010-02	.5644-02	3.793	24.39	581.6
304	.00000	.45000	805.00	.1077	.8860-01	.9990-01	.5281-02	.4344-02	.4896-02	3.278	21.69	584.1
304	.00000	.50000	806.00	.1043	.8570-01	.9660-01	.5112-02	.4203-02	.4738-02	3.162	21.55	586.4
304	.00000	.55000	807.00	.1099	.9020-01	.1018	.5388-02	.4421-02	.4990-02	3.300	23.92	592.4
304	.00000	.60000	808.00	.1301	.1067	.1205	.6381-02	.5232-02	.5908-02	3.890	28.15	595.3
304	.00000	.65000	809.00	.2035	.1661	.1881	.9978-02	.8142-02	.9220-02	5.923	42.54	611.2
304	.00000	.70000	810.00	.3101	.2517	.2859	.1520-01	.1234-01	.1402-01	8.777	64.70	627.5
304	.00000	.75000	811.00	.3597	.2916	.3315	.1784-01	.1430-01	.1625-01	10.10	71.84	632.0
304	.00000	.80000	812.00	.3602	.2919	.3319	.1766-01	.1431-01	.1628-01	10.11	71.84	632.6
304	.00000	.85000	813.00	.3398	.2754	.3168	.1666-01	.1350-01	.1553-01	9.526	70.03	633.1
304	.00000	.90000	814.00	.3247	.2636	.3036	.1592-01	.1292-01	.1489-01	9.197	63.43	627.1
304	.00000	.92500	815.00	.2846	.2315	.2671	.1396-01	.1135-01	.1310-01	8.143	64.66	621.4
304	.00000	.95000	816.00	.2858	.2318	.2687	.1401-01	.1136-01	.1317-01	8.050	63.65	630.3
304	.00000	.97500	817.00	.3062	.2474	.2884	.1502-01	.1213-01	.1414-01	8.443	66.36	642.6
304	.00000	1.0150	818.00	.6042	.4794	.5680	.2932-01	.2326-01	.2785-01	15.23	105.3	690.7
304	.00000	1.0300	819.00	.5959	.4744	.5607	.2932-01	.2326-01	.2749-01	15.27	106.0	682.4
304	.00000	1.0600	821.00	.4442	.3531	.4177	.2178-01	.1731-01	.2048-01	11.30	88.61	686.1
304	.00000	.89.000	89.000	.5300-02	.4400-02	.5300-02	.2611-03	.2172-03	.2611-03	.1730	1.041	542.9
304	.00000	.91.000	91.000	.7500-02	.6200-02	.7500-02	.3668-03	.3053-03	.3668-03	.2430	1.509	541.1
304	.00000	.90000-01	90.000	.7000-02	.5800-02	.7000-02	.3438-03	.2960-03	.3438-03	.2280	1.373	542.3
304	.00000	.40000	823.00	.1118	.9180-01	.1036	.5483-02	.4501-02	.5079-02	3.363	26.13	591.5
304	.00000	.50000	824.00	.1076	.8820-01	.9960-01	.5276-02	.4323-02	.4883-02	3.206	24.85	597.1
304	.00000	.60000	825.00	.9620-01	.7830-01	.8900-01	.4717-02	.3862-02	.4365-02	2.851	24.70	600.5
304	.00000	.70000	826.00	.3639	.2949	.3353	.1784-01	.1446-01	.1644-01	10.21	72.57	632.6
304	.00000	.80000	827.00	.3516	.2652	.3241	.1724-01	.1398-01	.1589-01	9.920	70.62	629.4
304	.00000	.90000	828.00	.2839	.2306	.2655	.1392-01	.1131-01	.1302-01	8.058	61.57	625.9
304	.00000	.92500	971.00	.1949	.1594	.1949	.9558-02	.7813-02	.9558-02	5.730	41.27	605.4
304	.00000	.95000	975.00	.2495	.2032	.2495	.1223-01	.9955-02	.1223-01	7.193	51.52	616.8
304	.00000	.97500	980.00	.1638	.1345	.1638	.8032-02	.6595-02	.8032-02	4.935	35.81	590.4
304	.00000	.20000	93.000	.1280-01	.1060-01	.1280-01	.6257-03	.5214-03	.6257-03	4.150	2.573	541.9
304	.00000	.30.000	976.00	.1424	.1169	.1424	.6981-02	.5734-02	.6981-02	4.297	31.20	589.3
304	.00000	.40000	979.00	.1780	.1458	.1780	.8729-02	.7146-02	.8729-02	5.277	38.11	600.2
304	.00000	.50000	979.00	.5710-01	.4730-01	.5710-01	.2739-02	.2318-02	.2739-02	1.812	13.37	557.1
304	.00000	.60000	.83100+10	.1359	.1118	.1260	.6662-02	.5479-02	.6176-02	4.133	28.20	584.4
304	.00000	.70000	832.00	.1099	.9010-01	.1017	.5386-02	.4417-02	.4987-02	3.286	23.03	594.7
304	.00000	.80000	833.00	.1260	.1031	.1166	.6178-02	.5055-02	.5715-02	3.723	24.41	602.3
304	.00000	.90000	834.00	.2028	.1652	.1873	.9346-02	.8098-02	.9182-02	5.834	43.20	618.3
304	.00000	.60000	835.00	.3259	.2646	.3005	.1598-01	.1297-01	.1473-01	9.227	63.63	627.4

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1C) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TH DEG. R
304	32.000	.90000	835.00	.2958	.2405	.2767	.1450-01	.1179-01	.1357-01	8.433	60.20	623.5
304	32.000	.95000	837.00	.2949	.2398	.2775	.1446-01	.1176-01	.1361-01	8.430	62.31	621.9
304	32.000	.97500	838.00	.2992	.2424	.2820	.1467-01	.1189-01	.1383-01	8.389	63.88	633.0
304	32.000	1.0150	839.00	.5700	.4474	.5088	.2795-01	.2194-01	.2495-01	13.66	101.8	716.2
304	32.000	1.0300	840.00	.5513	.4369	.4945	.2703-01	.2142-01	.2424-01	13.82	100.5	693.4
304	32.000	1.0450	841.00	.5531	.4387	.4962	.2712-01	.2151-01	.2433-01	13.92	99.52	691.5
304	32.000	1.0600	842.00	.4125	.3294	.3713	.2022-01	.1615-01	.1821-01	10.74	83.17	673.7
304	45.000	.92500	969.00	.3150-01	.2610-01	.3150-01	.1544-02	.1281-02	.1544-02	1.008	7.453	552.0
304	45.000	.95000	973.00	.2300-02	.1900-02	.2300-02	.1106-03	.9194-04	.1106-03	.7300-01	.5420	544.6
304	45.000	.97500	978.00	.1700-02	.1400-02	.1700-02	.8309-04	.6909-04	.8309-04	.5500-01	.4080	544.2
304	75.000	.97500	977.00	.1000-03	.1000-03	.1000-03	.356-05	.4454-05	.5355-05	.4000-02	.2600-01	543.8
304	85.000	.97500	976.00	.5000-03	.4000-03	.5030-03	.2616-04	.2176-04	.2616-04	.1700-01	.1290	543.1
304	180.00	.10000-01	551.000	.9900-01	.8210-01	.9900-01	.4853-02	.4025-02	.4853-02	3.161	23.35	553.5
304	180.00	.25000-01	60.000	.2420-01	.2010-01	.2420-01	.1188-02	.9874-03	.1188-02	.7830	5.619	546.1
304	180.00	.50000-01	61.000	.1210-01	.1010-01	.1210-01	.5948-03	.4946-03	.5948-03	.3930	2.500	544.3
304	180.00	.75000-01	62.000	.1480-01	.1230-01	.1480-01	.7251-03	.6029-03	.7251-03	.4790	3.045	544.6
304	180.00	.10000-00	63.000	.2490-01	.2070-01	.2490-01	.1323-02	.1017-02	.1223-02	.8060	5.278	545.7
304	180.00	.12500	64.000	.3040-01	.2520-01	.3040-01	.1469-02	.1237-02	.1469-02	.2800	6.818	546.4
304	180.00	.15000	65.000	.3450-01	.2860-01	.3450-01	.1689-02	.1404-02	.1689-02	1.112	7.734	546.4
304	180.00	.16000	66.000	.9030-01	.7480-01	.9030-01	.4425-02	.3670-02	.4425-02	2.878	15.94	554.6
304	180.00	.17000	67.000	.1157	.9590-01	.1157	.5672-02	.4704-02	.5672-02	3.690	20.44	554.3
304	180.00	.20000	69.000	.1627-01	.1350-01	.1620-01	.7947-03	.6610-03	.7947-03	.5260	3.258	542.7
304	180.00	.40100	72.000	.6500-02	.5400-02	.6500-02	.3196-03	.2660-03	.3196-03	.2120	1.803	541.0
304	180.00	.50000	73.000	.8100-02	.6800-02	.8100-02	.3982-03	.3314-03	.3982-03	.2640	2.246	541.2
304	180.00	.60100	74.000	.6900-02	.5700-02	.6900-02	.3370-03	.2804-03	.3370-03	.2240	1.839	541.4
304	180.00	.70100	75.000	.5000-02	.4100-02	.5000-02	.2434-03	.2026-03	.2434-03	.1620	1.289	540.5

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OH-498 (AEDC V418-57A) ORBITER FUSELAGE

(RV1828)

# FUSELAGE

## PARAMETRIC DATA

ALPHA = 33.00 BETA = .0000 ELEVTR = 10.00 SPOBRK = .0000  
BDFLAP = .0000 MACH = 8.000

### \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
338	7.900	.5356	30.00	.0000	180.0	107.2	.1200-01	1254.	93.00	.5200	3734.	.1074-04
339	7.900	.5476	30.00	.0000	180.0	110.2	.1200-01	1259.	93.40	.5350	3740.	.1101-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
338	.7490-07	1761-01	0.0175
339	.7516-07	1786-01	.5477-01

### \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DT/DT DEG. R /SEC	TW DEG. R
338	.00000	.00000	1.0000	.7758	.6350	.6672	.1366-01	.1118-01	.1175-01	7.726	42.62	563.2
338	.00000	.50000-02	2.0000	.7515	.6144	.6179	.1323-01	.1082-01	.1088-01	7.434	51.16	567.0
338	.00000	.10000-01	3.0000	.6149	.5038	.5208	.1083-01	.8870-02	.9170-02	6.156	41.23	560.2
338	.00000	.20000-01	4.0000	.3946	.3247	.3469	.6949-02	.5717-02	.6143-02	4.047	22.52	546.3
338	.00000	.30000-01	5.0000	.2937	.2419	.2652	.5172-02	.4260-02	.4669-02	3.030	16.88	543.0
338	.00000	.40000-01	6.0000	.2412	.1987	.2207	.4247-02	.3499-02	.3886-02	2.490	13.88	542.4
338	.00000	.50000-01	7.0000	.2232	.1836	.2061	.3930-02	.3233-02	.3630-02	2.286	15.41	545.0
338	.00000	.60000-01	8.0000	.2260	.1861	.2104	.3980-02	.3276-02	.3704-02	2.324	14.78	546.1
338	.00000	.70000-01	9.0000	.1935	.1592	.1814	.3406-02	.2800-02	.3193-02	1.985	13.80	543.9
338	.00000	.80000-01	10.000	.1540	.1268	.1452	.2711-02	.2232-02	.2557-02	1.586	11.04	541.8
338	.00000	.90000-01	11.000	.1470	.1211	.1352	.2588-02	.2132-02	.2451-02	1.519	9.681	541.4
338	.00000	1.0000	12.000	.1351	.1113	.1264	.2379-02	.1950-02	.2261-02	1.397	8.423	540.5
338	.00000	.12000	14.000	.1241	.1023	.1166	.2185-02	.1801-02	.2083-02	1.285	7.173	541.1
338	.00000	.13000	15.000	.1144	.9430-01	.1056	.2015-02	.1661-02	.1929-02	1.184	6.953	541.4
338	.00000	.14000	16.000	.1040	.8570-01	.9970-01	.1830-02	.1509-02	.1755-02	1.075	6.853	542.0
338	.00000	.15000	17.000	.1031	.8930-01	.1048	.1921-02	.1583-02	.1846-02	1.127	6.984	542.6
338	.00000	.16000	18.000	.1078	.8880-01	.1037	.1897-02	.1563-02	.1825-02	1.112	7.084	542.6
338	.00000	.17000	19.000	.1043	.8530-01	.1005	.1837-02	.1513-02	.1769-02	1.077	6.859	541.1
338	.00000	.18000	20.000	.1043	.8950-01	.1048	.1913-02	.1576-02	.1844-02	1.124	7.166	541.1
338	.00000	.19000	21.000	.1086								

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	QDOT DEG. R /SEC	TH DEG. R
338	.00000	.20000	22.000	.9940-01	.8190-01	.9990-01	.1750-02	.1471-02	.1689-02	1.025	6.531	542.8
338	.00000	.22500	23.000	.9390-01	.7730-01	.9090-01	.1653-02	.1362-02	.1600-02	.9690	6.175	542.3
338	.00000	.25000	801.00	.8920-01	.7350-01	.8650-01	.1570-02	.1294-02	.1523-02	.9210	5.867	542.3
338	.00000	.30000	802.00	.8350-01	.6880-01	.8100-01	.1470-02	.1211-02	.1425-02	.8620	5.489	542.5
338	.00000	.35000	803.00	.8600-01	.7080-01	.8340-01	.1514-02	.1247-02	.1468-02	.8860	5.642	543.5
338	.00000	.40000	804.00	.8390-01	.6910-01	.8140-01	.1478-02	.1217-02	.1433-02	.8660	5.674	543.1
338	.00000	.45000	805.00	.7710-01	.6350-01	.7480-01	.1358-02	.1118-02	.1317-02	.7950	5.369	543.2
338	.00000	.50000	805.00	.7060-01	.5820-01	.6850-01	.1244-02	.1024-02	.1206-02	.7280	5.072	543.3
338	.00000	.55000	807.00	.6800-01	.5600-01	.6590-01	.1195-02	.9852-03	.1160-02	.7000	5.195	544.1
338	.00000	.60000	808.00	.6250-01	.5140-01	.6060-01	.1100-02	.8056-03	.1056-02	.6430	4.778	543.9
338	.00000	.65000	809.00	.5950-01	.4900-01	.5770-01	.1048-02	.8626-03	.1016-02	.6120	4.543	544.8
338	.00000	.70000	810.00	.5620-01	.4630-01	.5450-01	.9895-03	.8145-03	.9595-03	.5780	4.436	544.9
338	.00000	.75000	811.00	.5600-01	.4610-01	.5430-01	.9884-03	.8119-03	.9555-03	.5760	4.272	545.3
338	.00000	.80000	812.00	.5720-01	.4710-01	.5540-01	.1006-02	.8285-03	.9760-03	.5870	4.360	545.1
338	.00000	.85000	813.00	.5470-01	.4510-01	.5370-01	.9637-03	.7932-03	.9449-03	.5620	4.318	545.2
338	.00000	.90000	814.00	.5080-01	.4190-01	.5000-01	.9951-03	.7359-03	.8796-03	.5230	3.757	544.6
338	.00000	.95000	815.00	.4100-01	.3370-01	.4040-01	.7216-03	.5942-03	.7110-03	.4220	3.494	543.7
338	.00000	.10000	816.00	.3740-01	.3080-01	.3690-01	.6583-03	.4821-03	.6504-03	.3850	3.178	543.8
338	.00000	.15000	817.00	.3330-01	.2740-01	.3290-01	.5855-03	.4200-03	.5799-03	.3420	2.822	544.4
339	.00000	.10150	818.00	.1880-01	.1550-01	.1870-01	.3318-03	.2735-03	.3297-03	.1950	1.452	540.7
338	.00000	.10300	819.00	.2100-01	.1730-01	.2090-01	.3699-03	.3049-03	.3059-03	.2180	1.620	540.1
338	.00000	.10600	821.00	.1750-01	.1440-01	.1740-01	.3078-03	.2538-03	.3059-03	.1810	1.529	539.3
338	.00000	.15000	89.000	.9100-02	.7500-02	.9100-02	.1597-03	.1318-03	.1597-03	.9500-01	.5730	535.7
338	.00000	.20000	91.000	.1290-01	.1060-01	.1290-01	.2263-03	.1867-03	.2263-03	.1340	.8310	537.5
338	.00000	.50000-01	90.000	.1240-01	.1020-01	.1240-01	.2185-03	.1804-03	.2185-03	.1300	.7840	535.5
338	.00000	.40000	823.00	.8290-01	.6820-01	.8040-01	.1450-02	.1201-02	.1415-02	.8510	6.763	545.9
338	.00000	.50000	824.00	.7820-01	.6430-01	.7580-01	.1377-02	.1133-02	.1335-02	.8020	6.374	546.2
338	.00000	.60000	825.00	.5300-01	.4360-01	.5140-01	.9329-03	.7678-03	.9046-03	.5440	4.845	545.5
338	.00000	.70000	826.00	.6110-01	.5020-01	.5920-01	.1075-02	.8849-03	.1043-02	.6260	4.645	546.4
338	.00000	.80000	827.00	.5750-01	.4730-01	.5570-01	.1012-02	.8327-03	.9811-03	.5900	4.377	545.7
338	.00000	.90000	828.00	.4320-01	.3560-01	.4250-01	.7611-03	.6265-03	.7479-03	.4440	3.534	545.0
338	.00000	.92500	971.00	.5220-01	.4300-01	.5220-01	.9133-03	.7566-03	.9193-03	.5360	3.978	545.6
338	.00000	.95000	975.00	.1113	.9150-01	.1113	.1959-02	.1611-02	.1959-02	.1135	8.402	549.7
338	.00000	.97500	980.00	.5690-01	.4690-01	.5690-01	.1003-02	.8265-03	.1003-02	.5900	4.392	540.1
338	.00000	.20000	93.000	.9100-02	.7500-02	.9100-02	.1606-03	.1325-03	.1606-03	.9500-01	.5900	537.2
338	.00000	.30000	970.00	.5030-01	.4250-01	.5030-01	.9338-03	.7266-03	.9338-03	.3130	2.329	541.9
338	.00000	.40000	974.00	.5010-01	.4130-01	.5010-01	.8821-03	.7266-03	.8821-03	.5170	3.843	542.6
338	.00000	.50000	979.00	.2870-01	.2370-01	.2870-01	.5058-03	.4176-03	.5058-03	.3000	2.241	539.9
338	.00000	.60000	83100+10	.1054	.8670-01	.1022	.1855-02	.1527-02	.1799-02	1.082	7.528	545.5
338	.00000	.70000	832.00	.8890-01	.7310-01	.8620-01	.1565-02	.1288-02	.1518-02	.9110	6.540	546.6
338	.00000	.80000	833.00	.7630-01	.6330-01	.7460-01	.1354-02	.1114-02	.1313-02	.7890	5.318	546.5
338	.00000	.90000	834.00	.4430-01	.3640-01	.4290-01	.7794-03	.6410-03	.7557-03	.4530	3.472	547.8
338	.00000	.80000	835.00	.5080-01	.4180-01	.4930-01	.8944-03	.7361-03	.8672-03	.5210	3.744	545.8

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(970) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTHOT DEG. R /SEC	TW DEG. R
338	32.000	.90000	836.00	.3870-01	.3190-01	.3810-01	.6818-03	.5613-03	.6700-03	.3980	2.958	544.4
338	32.000	.95000	837.00	.3820-01	.3150-01	.3770-01	.6728-03	.5539-03	.6646-03	.3930	3.019	544.5
338	32.000	.97500	838.00	.3400-01	.2800-01	.3370-01	.5984-03	.4930-03	.5928-03	.3510	2.793	542.6
338	32.000	1.0150	839.00	.2460-01	.2030-01	.2350-01	.4335-03	.3573-03	.4141-03	.2550	2.066	541.4
338	32.000	1.0300	840.00	.2780-01	.2290-01	.2650-01	.4887-03	.4027-03	.4667-03	.2870	2.248	541.1
338	32.000	1.0450	841.00	.2990-01	.2460-01	.2850-01	.5260-03	.4335-03	.5023-03	.3090	2.377	541.4
338	45.000	.92500	969.00	.1800-02	.1500-02	.1800-02	.3200-04	.2641-04	.3200-04	.1900-01	.1410	536.2
338	45.000	.95000	973.00	.4000-03	.3000-03	.4000-03	.6698-05	.5527-05	.6698-05	.4000-02	.3000-01	536.9
338	45.000	.97500	978.00	.9000-03	.7000-03	.9000-03	.1543-04	.1273-04	.1543-04	.9000-02	.6800-01	537.0
338	75.000	.97500	977.00	.2000-03	.2000-03	.2000-03	.3679-05	.3036-05	.3679-05	.2000-02	.1600-01	537.0
338	85.000	.97500	976.00	.2000-03	.2000-03	.2000-03	.3898-05	.3217-05	.3898-05	.2000-02	.1700-01	537.0
338	180.00	.10000-01	59.000	.1850	.1524	.1850	.3258-02	.2683-02	.3258-02	.1910	14.19	542.6
338	180.00	.25000-01	60.000	.5480-01	.4520-01	.5480-01	.9543-03	.7958-03	.9543-03	.5710	4.122	535.3
338	180.00	.50000-01	61.000	.2480-01	.2050-01	.2480-01	.4365-03	.3603-03	.4365-03	.2590	1.657	535.2
338	180.00	.75000-01	62.000	.1380-01	.1140-01	.1380-01	.2435-03	.2010-03	.2435-03	.1440	.9230	535.5
338	180.00	.10000-00	63.000	.9700-02	.8000-02	.9700-02	.1705-03	.1407-03	.1705-03	.1010	.6650	535.7
338	180.00	.12500	64.000	.8500-02	.7000-02	.8500-02	.1497-03	.1236-03	.1497-03	.8900-01	.6200	536.0
338	180.00	.15000	65.000	.1040-01	.8600-02	.1040-01	.1833-03	.1513-03	.1833-03	.1090	.7590	536.7
338	180.00	.16000	66.000	.2370-01	.1960-01	.2370-01	.4180-03	.3448-03	.4180-03	.2470	1.380	538.0
338	180.00	.17000	67.000	.6370-01	.5250-01	.6370-01	.1122-02	.9250-03	.1122-02	.5610	3.687	540.0
338	180.00	.20000	69.000	.1520-01	.1250-01	.1520-01	.2669-03	.2202-03	.2669-03	.1580	.9750	538.0
338	180.00	.40100	72.000	.3700-02	.3000-02	.3700-02	.6464-04	.5332-04	.6464-04	.3800-01	.3250	537.7
338	180.00	.50000	73.000	.4400-02	.3600-02	.4400-02	.7788-04	.6424-04	.7788-04	.4600-01	.3920	538.2
338	180.00	.60100	74.000	.5500-02	.4500-02	.5500-02	.9678-04	.7983-04	.9678-04	.5700-01	.4710	538.1
338	180.00	.70100	75.000	.5500-02	.4500-02	.5500-02	.9605-04	.7923-04	.9605-04	.5700-01	.4530	538.2



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## FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B28)

## PARAMETRIC DATA

ALPHA = 30.30 BETA = .0000 ELEVTR = 10.00 SPOBRK = .0000  
BDFLAP = .0030 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
334	7.980	1.955	30.06	.0000	180.0	428.9	4500-01	1309.	95.30	1.991	3818.	.3931-04
335	7.980	1.988	30.06	.0000	180.0	431.1	4500-01	1299.	94.60	2.001	3803.	.3982-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
334	.7674-07	3469-01	0.0175
335	.7615-07	3474-01	.2889-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1STO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
334	.00000	.00000	1.0000	.7671	.6257	.6581	.2681-01	.2171-01	.2283-01	15.46	83.53	599.2
334	.00000	.50000-02	2.0000	.7440	.6051	.6086	.2581-01	.2099-01	.2112-01	14.73	99.37	607.6
334	.00000	.10000-01	3.0000	.6069	.4960	.5129	.2106-01	.1721-01	.1779-01	12.33	81.25	592.7
334	.00000	.20000-01	4.0000	.3959	.3263	.3503	.1373-01	.1132-01	.1215-01	8.435	46.50	564.3
334	.00000	.30000-01	5.0000	.2910	.2404	.2530	.1010-01	.8339-02	.9126-02	6.273	34.71	557.0
334	.00000	.40000-01	6.0000	.2444	.2021	.2240	.8479-02	.7011-02	.7770-02	5.304	29.41	552.9
334	.00000	.50000-01	7.0000	.2228	.1838	.2060	.7730-02	.6377-02	.7147-02	4.768	31.91	561.6
334	.00000	.60000-01	8.0000	.2257	.1864	.2103	.7832-02	.6468-02	.7296-02	4.863	30.74	557.5
334	.00000	.70000-01	9.0000	.1941	.1602	.1821	.6734-02	.5557-02	.6317-02	4.164	28.76	560.0
334	.00000	.80000-01	10.000	.1554	.1285	.1467	.5333-02	.4457-02	.5090-02	3.361	23.27	555.2
334	.00000	.90000-01	11.000	.1452	.1201	.1376	.5037-02	.4167-02	.4774-02	3.159	20.03	551.3
334	.00000	.10000+00	12.000	.1330	.1100	.1266	.4614-02	.3818-02	.4391-02	2.896	17.38	550.9
334	.00000	.12000	14.000	.1201	.9940-01	.1149	.4167-02	.3450-02	.3987-02	2.624	14.58	548.8
334	.00000	.13000	15.000	.1135	.9400-01	.1088	.3939-02	.3260-02	.3775-02	2.477	14.48	549.7
334	.00000	.14000	16.000	.1037	.8580-01	.9950-01	.3597-02	.2976-02	.3451-02	2.260	14.34	550.2
334	.00000	.16000	18.000	.1085	.8980-01	.1043	.3765-02	.3111-02	.3620-02	2.359	14.54	551.8
334	.00000	.17000	19.000	.1067	.8820-01	.1027	.3702-02	.3061-02	.3564-02	2.316	14.67	552.9
334	.00000	.18000	20.000	.1075	.8890-01	.1036	.3730-02	.3084-02	.3594-02	2.332	14.77	553.3
334	.00000	.19000	21.000	.1021	.8450-01	.9850-01	.3543-02	.2932-02	.3419-02	2.225	14.12	550.5

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1828)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19T01 FT/SEC	H1T0 BTU/R	H1TAW BTU/R	QDOT BTU/FT/SEC	DTWOT DEG. R	TH DEG. R
334	.00000	.20000	22.000	.1005	.8310-01	.9710-01	.3488-02	.2884-02	.3359-02	2.181	13.82	552.9
334	.00000	.22500	23.000	.8990-01	.7760-01	.9090-01	.3257-02	.2694-02	.3154-02	2.040	12.93	551.9
334	.00000	.25000	801.00	.8990-01	.7440-01	.8720-01	.3120-02	.2580-02	.3027-02	1.953	12.38	552.3
334	.00000	.30000	802.00	.8150-01	.6740-01	.7910-01	.2828-02	.2338-02	.2744-02	1.768	11.21	553.1
334	.00000	.35000	803.00	.8280-01	.6840-01	.8030-01	.2871-02	.2372-02	.2785-02	1.786	11.30	556.3
334	.00000	.40000	804.00	.8230-01	.6800-01	.7980-01	.2856-02	.2359-02	.2770-02	1.774	11.55	557.3
334	.00000	.45000	805.00	.7390-01	.6100-01	.7170-01	.2554-02	.2116-02	.2486-02	1.588	10.64	558.8
334	.00000	.50000	806.00	.6740-01	.5560-01	.6540-01	.2338-02	.1929-02	.2267-02	1.446	9.987	559.9
334	.00000	.55000	807.00	.6500-01	.5360-01	.6300-01	.2254-02	.1859-02	.2186-02	1.388	10.21	562.5
334	.00000	.60000	808.00	.5970-01	.4920-01	.5790-01	.2071-02	.1708-02	.2038-02	1.275	9.378	562.8
334	.00000	.65000	809.00	.5330-01	.4390-01	.5170-01	.1849-02	.1523-02	.1792-02	1.134	8.328	565.2
334	.00000	.70000	810.00	.5200-01	.4280-01	.5040-01	.1803-02	.1485-02	.1748-02	1.103	8.380	566.4
334	.00000	.75000	811.00	.5550-01	.4580-01	.5390-01	.1928-02	.1588-02	.1869-02	1.179	8.652	567.1
334	.00000	.80000	812.00	.6070-01	.5000-01	.5880-01	.2104-02	.1733-02	.2040-02	1.286	9.437	567.4
334	.00000	.85000	813.00	.6140-01	.5050-01	.6020-01	.2129-02	.1754-02	.2087-02	1.301	9.882	567.2
334	.00000	.90000	814.00	.5790-01	.4770-01	.5680-01	.2008-02	.1656-02	.1973-02	1.234	8.777	564.1
334	.00000	.92500	815.00	.4740-01	.3910-01	.4670-01	.1546-02	.1358-02	.1622-02	1.015	8.295	562.1
334	.00000	.95000	816.00	.4490-01	.3700-01	.4440-01	.1558-02	.1285-02	.1539-02	.9600	7.650	562.3
334	.00000	.97500	817.00	.4590-01	.3780-01	.4540-01	.1592-02	.1312-02	.1577-02	.9770	7.979	564.6
334	.00000	1.0150	818.00	.3050-01	.2520-01	.3030-01	.1057-02	.8838-03	.1050-02	.6600	4.875	554.2
334	.00000	1.0300	819.00	.3080-01	.2550-01	.3060-01	.1070-02	.8847-03	.1063-02	.6700	4.952	555.5
334	.00000	1.0600	821.00	.2240-01	.1850-01	.2220-01	.7764-03	.6422-03	.7714-03	.4870	4.075	551.7
334	.00000	.15000	89.000	.8000-02	.6600-02	.8000-02	.2770-03	.2300-03	.2770-03	.1780	1.073	537.3
334	.00000	.20000	91.000	.1680-01	.1400-01	.1680-01	.5834-03	.4841-03	.5834-03	.3730	2.312	539.6
334	.00000	.50000-01	90.000	.4900-02	.4100-02	.4900-02	.1693-03	.1406-03	.1693-03	.1090	.6570	536.6
334	.00000	.40000	823.00	.8180-01	.6750-01	.7940-01	.2839-02	.2341-02	.2753-02	1.748	13.77	582.9
334	.00000	.50000	824.00	.7550-01	.6220-01	.7320-01	.2621-02	.2159-02	.2541-02	1.606	12.64	565.7
334	.00000	.60000	825.00	.5160-01	.4250-01	.5000-01	.1789-02	.1474-02	.1734-02	1.096	9.661	565.7
334	.00000	.70000	826.00	.5840-01	.4810-01	.5660-01	.2027-02	.1669-02	.1965-02	1.236	9.066	568.7
334	.00000	.80000	827.00	.6090-01	.5010-01	.5900-01	.2112-02	.1739-02	.2048-02	1.290	9.471	567.4
334	.00000	.90000	828.00	.5140-01	.4240-01	.5050-01	.1784-02	.1470-02	.1753-02	1.096	8.629	564.2
334	.00000	.92500	971.00	.1118	.9200-01	.1118	.3880-02	.3192-02	.3880-02	2.357	17.27	570.9
334	.00000	.95000	975.00	.1465	.1205	.1465	.5082-02	.4181-02	.5082-02	3.088	22.63	570.8
334	.00000	.97500	980.00	.7010-01	.5800-01	.7010-01	.2433-02	.2013-02	.2433-02	1.528	11.31	550.3
334	.00000	.20000	93.000	.1140-01	.9400-02	.1140-01	.3945-03	.3275-03	.3945-03	.2520	1.565	539.0
334	.00000	.25000	970.00	.8780-01	.7240-01	.8780-01	.3046-02	.2512-02	.3046-02	1.876	13.80	562.7
334	.00000	.30000	974.00	.9060-01	.7480-01	.9060-01	.3143-02	.2594-02	.3143-02	1.942	14.31	560.4
334	.00000	.35000	979.00	.1050-01	.8700-02	.1050-01	.3657-03	.3032-03	.3657-03	.2320	1.726	543.2
334	.00000	.40000	.83100+10	.1070	.8830-01	.1038	.3713-02	.3053-02	.3601-02	2.292	15.82	561.1
334	.00000	.45000	832.00	.8980-01	.7400-01	.8710-01	.3115-02	.2566-02	.3020-02	1.908	13.56	566.0
334	.00000	.50000	833.00	.7690-01	.6320-01	.7450-01	.2665-02	.2194-02	.2583-02	1.628	10.86	567.6
334	.00000	.55000	834.00	.6510-01	.5360-01	.6310-01	.2260-02	.1859-02	.2191-02	1.372	10.40	571.3
334	.00000	.60000	835.00	.5650-01	.4650-01	.5480-01	.1960-02	.1614-02	.1900-02	1.199	8.516	566.8

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## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
334	32.000	.90000	836.00	.5040-01	.4160-01	.4950-01	.1749-02	.1442-02	.1719-02	1.075	7.903	563.9
334	32.000	.95000	837.00	.5230-01	.4310-01	.5160-01	.1814-02	.1496-02	.1792-02	1.117	8.499	562.8
334	32.000	.97500	838.00	.5250-01	.4330-01	.5200-01	.1822-02	.1502-02	.1804-02	1.120	8.826	563.4
334	32.000	1.0150	839.00	.4050-01	.3340-01	.3870-01	.1404-02	.1159-02	.1341-02	.8710	7.010	557.8
334	32.000	1.0300	840.00	.4760-01	.3930-01	.4550-01	.1651-02	.1364-02	.1577-02	1.027	7.980	556.3
334	32.000	1.0450	841.00	.5230-01	.4320-01	.4990-01	.1813-02	.1498-02	.1732-02	1.127	8.604	556.8
334	45.000	.92500	969.00	.1070-01	.8900-02	.1070-01	.3709-03	.3076-03	.3709-03	.2360	1.752	542.7
334	45.000	.95000	973.00	.1000-02	.8000-03	.1000-02	.3422-04	.2838-04	.3422-04	.2200-01	.1620	542.0
334	45.000	.97500	978.00	.1000-02	.8000-03	.1000-02	.3347-04	.2776-04	.3347-04	.2100-01	.1580	541.8
334	85.000	.97500	977.00	.3000-03	.3000-03	.3000-03	.1146-04	.9501-05	.1146-04	.7000-02	.5400-01	541.8
334	97.000	.97500	976.00	.1100-02	.9000-03	.1100-02	.3836-04	.3182-04	.3836-04	.2400-01	.1820	541.7
334	180.00	.10000-01	59.000	.1785	.1476	.1785	.6192-02	.5122-02	.6192-02	3.879	28.68	552.1
334	180.00	.25000-01	60.000	.4950-01	.4100-01	.4950-01	.1716-02	.1424-02	.1716-02	1.094	7.876	540.9
334	180.00	.50000-01	61.000	.2110-01	.1750-01	.2110-01	.7312-03	.6072-03	.7312-03	4.690	2.992	537.7
334	180.00	.75000-01	62.000	.1120-01	.9300-02	.1120-01	.3874-03	.3217-03	.3874-03	.2480	1.586	537.4
334	180.00	.10000+00	63.000	.8600-02	.7200-02	.8600-02	.2989-03	.2482-03	.2989-03	.1920	1.259	537.6
334	180.00	.12500	64.000	.1080-01	.9000-02	.1080-01	.3743-03	.3107-03	.3743-03	.2400	1.673	538.4
334	180.00	.15000	65.000	.1900-01	.1580-01	.1900-01	.6604-03	.5481-03	.6604-03	.4220	2.945	539.5
334	180.00	.16000	66.000	.5840-01	.4840-01	.5840-01	.2025-02	.1678-02	.2025-02	1.282	7.134	545.3
334	180.00	.17000	67.000	.8930-01	.7390-01	.8930-01	.3096-02	.2565-02	.3096-02	1.955	10.87	547.0
334	180.00	.20000	69.000	.1500-01	.1240-01	.1500-01	.5189-03	.4307-03	.5189-03	.3320	2.057	539.4
334	180.00	.40100	72.000	.9100-02	.7500-02	.9100-02	.3156-03	.2618-03	.3156-03	.2010	1.707	541.9
334	180.00	.50000	73.000	.8400-02	.7000-02	.8400-02	.2920-03	.2421-03	.2920-03	.1860	1.576	542.7
334	180.00	.60100	74.000	.6300-02	.5300-02	.6300-02	.2201-03	.1825-03	.2201-03	.1400	1.150	542.8
334	180.00	.70100	75.000	.7100-02	.5900-02	.7100-02	.2471-03	.2049-03	.2471-03	.1570	1.251	542.7

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1828)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 10.00 SPDRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
330	8.000	3.755	30.08	.0000	180.0	859.8	.8800-01	1341.	97.20	3.945	3864.	.7603-04
331	8.000	3.771	30.09	.0000	180.0	861.1	.8800-01	1339.	97.00	3.951	3861.	.7629-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR
330	.7824-07	.4905-01		0.0175
331	.7810-07	.4907-01		.2097-01
				.2093-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H19TO) BTU/ R FT2SEC	H1TO) BTU/ R FT2SEC	H1TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
330	.00000	.00000	1.0000	.7672	.6213	.6546	.3763-01	.3047-01	.3210-01	21.50	114.5	635.6
330	.00000	.50000-02	2.0000	.7494	.6043	.6079	.3676-01	.2864-01	.2982-01	20.53	135.8	648.4
330	.00000	.10000-01	3.0000	.6411	.5206	.5388	.3144-01	.2554-01	.2643-01	18.23	118.1	627.1
330	.00000	.20000-01	4.0000	.3947	.3245	.3487	.1936-01	.1592-01	.1710-01	12.00	65.41	587.2
330	.00000	.30000-01	5.0000	.2918	.2406	.2635	.1431-01	.1180-01	.1292-01	9.023	49.44	576.6
330	.00000	.40000-01	6.0000	.2440	.2016	.2235	.1197-01	.0986-02	.1096-01	7.616	41.85	570.8
330	.00000	.50000-01	7.0000	.2247	.1850	.2076	.1102-01	.0773-02	.1018-01	6.882	45.57	582.7
330	.00000	.60000-01	8.0000	.2256	.1860	.2100	.1107-01	.0923-02	.1030-01	6.970	43.63	577.2
330	.00000	.70000-01	9.0000	.1925	.1585	.1804	.0440-02	.7776-02	.8850-02	5.916	40.44	580.4
330	.00000	.80000-01	10.000	.1531	.1264	.1445	.7511-02	.6199-02	.7086-02	4.761	32.67	573.2
330	.00000	.90000-01	11.000	.1436	.1187	.1361	.7043-02	.5822-02	.6673-02	4.505	28.34	567.4
330	.00000	.10000+00	12.000	.1321	.1093	.1257	.6481-02	.5359-02	.6165-02	4.149	24.70	566.8
330	.00000	.12000	14.000	.1187	.9830-01	.1136	.5823-02	.4821-02	.5570-02	3.756	20.73	562.1
330	.00000	.13000	15.000	.1127	.9330-01	.1080	.5529-02	.4576-02	.5297-02	3.560	20.67	563.1
330	.00000	.14000	16.000	.1037	.8580-01	.9950-01	.5386-02	.4208-02	.4879-02	3.271	20.62	563.9
330	.00000	.16000	18.000	.1058	.8750-01	.1017	.5190-02	.4291-02	.4989-02	3.325	20.35	566.4
330	.00000	.17000	19.000	.1053	.8710-01	.1014	.5166-02	.4270-02	.4972-02	3.303	20.77	567.8
330	.00000	.18000	20.000	.1035	.8560-01	.9970-01	.5078-02	.4197-02	.4892-02	3.244	20.40	568.1
330	.00000	.19000	21.000	.1022	.8450-01	.9860-01	.5011-02	.4145-02	.4834-02	3.217	20.26	565.1

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ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1828)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
330	.00000	.20000	22.000	.9900-01	.8180-01	.9580-01	.4857-02	.4014-02	.4691-02	3.104	19.52	567.9
330	.00000	.22500	23.000	.9210-01	.7620-01	.8920-01	.4518-02	.3736-02	.4375-02	2.894	18.22	566.4
330	.00000	.25000	801.00	.9190-01	.7600-01	.8920-01	.4509-02	.3728-02	.4374-02	2.886	18.16	567.0
330	.00000	.30000	802.00	.8350-01	.6900-01	.8100-01	.4095-02	.3235-02	.3973-02	2.618	16.47	567.8
330	.00000	.35000	803.00	.8710-01	.7190-01	.8450-01	.4202-02	.3526-02	.4142-02	2.712	17.02	572.1
330	.00000	.40000	804.00	.8570-01	.7070-01	.8310-01	.3886-02	.3206-02	.4075-02	2.665	17.21	574.6
330	.00000	.45000	805.00	.7920-01	.6540-01	.7680-01	.3636-02	.2997-02	.3769-02	2.458	16.34	577.2
330	.00000	.50000	806.00	.7410-01	.6110-01	.7150-01	.3630-02	.2991-02	.3519-02	2.279	15.68	579.3
330	.00000	.55000	807.00	.7400-01	.6100-01	.7150-01	.3816-02	.3143-02	.3599-02	2.392	17.45	580.1
330	.00000	.60000	808.00	.7780-01	.6410-01	.7540-01	.4867-02	.4003-02	.4717-02	3.023	21.99	585.8
330	.00000	.65000	809.00	.9920-01	.8160-01	.9520-01	.6510-02	.5345-02	.6308-02	4.006	30.05	591.7
330	.00000	.70000	810.00	.1327	.1090	.1266	.8683-02	.7117-02	.8410-02	5.293	38.28	597.4
330	.00000	.75000	811.00	.1770	.1451	.1715	.1068-01	.8741-02	.1034-01	6.448	46.48	603.5
330	.00000	.80000	812.00	.2178	.1782	.209	.1118-01	.9134-02	.1094-01	6.707	49.93	606.9
330	.00000	.8500	813.00	.2278	.1862	.2231	.1077-01	.8817-02	.1577-01	5.516	45.49	602.1
330	.00000	.90000	814.00	.2196	.1798	.2156	.8938-02	.7328-02	.8801-02	5.454	43.83	596.9
330	.00000	.92500	815.00	.1822	.1494	.1754	.9125-02	.7470-02	.9008-02	5.524	44.29	601.7
330	.00000	.95000	816.00	.1861	.1523	.1837	.9596-02	.7843-02	.8498-02	5.756	46.02	607.2
330	.00000	.97500	817.00	.1957	.1599	.1937	.6211-02	.5114-02	.6169-02	5.884	28.30	581.8
330	.00000	1.0150	818.00	.1266	.1043	.1258	.5963-02	.4913-02	.5923-02	3.743	27.31	579.3
330	.00000	1.0300	819.00	.1216	.1002	.1208	.5320-02	.4378-02	.5284-02	3.316	27.33	583.7
330	.00000	1.0600	821.00	.1085	.8930-01	.1077	.3269-03	.2718-03	.3269-03	2.160	1.301	545.7
330	.00000	1.5000	89.000	.6700-02	.5500-02	.6700-02	.1205-02	.1001-02	.1205-02	.7930	4.898	548.7
330	.00000	20000	91.000	.2460-01	.2040-01	.2460-01	.4228-03	.3516-03	.4228-03	2.800	1.685	545.0
330	.00000	50000-01	90.000	.8600-02	.7200-02	.8600-02	.4215-02	.3471-02	.4086-02	2.637	20.60	581.3
330	.00000	.40000	823.00	.8590-01	.7080-01	.8330-01	.4026-02	.3313-02	.3902-02	2.507	19.55	584.2
330	.00000	.50000	824.00	.8210-01	.6750-01	.7360-01	.3096-02	.2547-02	.3001-02	1.927	16.83	584.5
330	.00000	.60000	825.00	.6310-01	.5190-01	.6120-01	.5044-02	.4141-02	.4887-02	3.103	22.49	592.0
330	.00000	.70000	826.00	.1028	.8440-01	.9360-01	.8712-02	.7137-02	.8438-02	5.295	38.25	599.3
330	.00000	.80000	827.00	.1776	.1455	.1720	.8876-02	.7269-02	.8715-02	5.379	41.60	601.0
330	.00000	.90000	828.00	.1810	.1482	.1777	.6692-02	.5495-02	.6692-02	4.121	29.89	591.3
330	.00000	.92500	829.00	.1354	.1120	.1364	.8485-02	.6957-02	.8485-02	2.494	37.48	596.5
330	.00000	.95000	975.00	.1730	.1418	.1730	.3688-02	.3202-02	.3688-02	2.494	18.35	562.2
330	.00000	.97500	980.00	.7830-01	.6530-01	.7890-01	.6688-03	.5558-03	.6688-03	4.470	2.725	547.5
330	.00000	20000	93.000	.1360-01	.1130-01	.1360-01	.5351-02	.4409-02	.5351-02	3.359	24.51	579.3
330	.00000	.92500	970.00	.1091	.8990-01	.1091	.5406-02	.4454-02	.5406-02	3.393	24.75	579.5
330	.00000	.95000	974.00	.1102	.9080-01	.1102	.1408-02	.1170-02	.1408-02	9.270	6.864	549.0
330	.00000	.97500	979.00	.2870-01	.2380-01	.2870-01	.5050-02	.4163-02	.4896-02	3.177	21.75	577.9
330	.00000	3100+10	.00	.1030	.8490-01	.9980-01	.4418-02	.3635-02	.4282-02	2.752	19.38	584.1
330	.00000	.40000	833.00	.9010-01	.7410-01	.8733-01	.4202-02	.3455-02	.4072-02	2.607	17.23	586.6
330	.00000	.50000	834.00	.8570-01	.7040-01	.8303-01	.3928-02	.3225-02	.3806-02	2.415	18.11	592.2
330	.00000	.60000	835.00	.8010-01	.6570-01	.7763-01	.5705-02	.4684-02	.5527-02	3.509	24.62	591.9
330	.00000	.80000	835.00	.1163	.9550-01	.1127						

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04-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1828)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
330	32.000	.90000	836.00	.1477	.1212	.1450	.7243-02	.5945-02	.7113-02	4.449	32.25	592.7
330	32.000	.95000	837.00	.1656	.1358	.1635	.8120-02	.6663-02	.8017-02	4.980	37.32	593.7
330	32.000	.97500	838.00	.1704	.1396	.1687	.8359-02	.6848-02	.8274-02	5.082	39.34	599.1
330	32.000	1.0150	839.00	.1286	.1056	.1226	.6305-02	.5178-02	.6014-02	3.884	30.74	591.0
330	32.000	1.0300	840.00	.1262	.1038	.1204	.6189-02	.5090-02	.5905-02	3.843	29.42	586.1
330	32.000	1.0450	841.00	.1278	.1051	.1215	.6268-02	.5155-02	.5981-02	3.891	29.27	586.3
330	45.000	.92500	969.00	.1580-01	.1310-01	.1580-01	.7765-03	.6449-03	.7765-03	.5110	3.781	549.6
330	45.000	.95000	973.00	.1300-02	.1100-02	.1300-02	.6530-04	.5426-04	.6530-04	.4300-01	.3190	547.9
330	45.000	.97500	978.00	.1900-02	.1600-02	.1900-02	.9269-04	.7702-04	.9269-04	.6100-01	.4530	548.1
330	75.000	.97500	977.00	.1200-02	.1000-02	.1200-02	.5735-04	.4765-04	.5735-04	.3800-01	.2800	548.2
330	85.000	.97500	975.00	.2700-02	.2300-02	.2700-02	.1333-03	.1108-03	.1333-03	.6800-01	.6510	548.2
330	180.00	.10000-01	59.000	.1731	.1430	.1731	.8489-02	.7014-02	.8489-02	5.414	39.70	569.3
330	180.00	.25000-01	60.000	.4750-01	.3950-01	.4750-01	.2331-02	.1935-02	.2331-02	1.528	10.94	551.8
330	180.00	.50000-01	61.000	.2050-01	.1710-01	.2050-01	.1007-02	.8366-03	.1007-02	.6640	4.222	547.0
330	180.00	.75000-01	62.000	.1050-01	.8700-02	.1050-01	.5126-03	.4262-03	.5126-03	.3390	2.156	545.6
330	180.00	.10000+03	63.000	.9200-02	.7700-02	.9200-02	.4521-03	.3758-03	.4521-03	.2990	1.956	546.2
330	180.00	.12500	64.000	.1340-01	.1110-01	.1340-01	.6557-03	.5450-03	.6557-03	.4330	3.010	546.7
330	180.00	.15000	65.000	.2450-01	.2040-01	.2450-01	.1202-02	.9986-03	.1202-02	.7920	5.498	548.6
330	180.00	.16000	66.000	.7400-01	.6130-01	.7400-01	.3629-02	.3008-02	.3629-02	2.356	13.03	557.2
330	180.00	.17000	67.000	.1014	.8410-01	.1014	.4974-02	.4123-02	.4974-02	3.232	17.88	557.2
330	180.00	.20000	69.000	.1520-01	.1260-01	.1520-01	.7431-03	.6176-03	.7431-03	.4900	3.030	547.1
330	180.00	.40100	72.000	.1180-01	.9800-02	.1130-01	.5764-03	.4787-03	.5764-03	.3790	3.203	549.9
330	180.00	.50000	73.000	.1010-01	.8400-02	.1010-01	.4970-03	.4128-03	.4970-03	.3270	2.762	549.9
330	180.00	.60100	74.000	.7900-02	.6500-02	.7900-02	.3864-03	.3210-03	.3864-03	.2540	2.081	549.2
330	180.00	.70100	75.000	.6300-02	.5300-02	.6300-02	.3109-03	.2582-03	.3109-03	.2050	1.622	549.1

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1829)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 10.00 SPOBRK = .0000  
 BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAH DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
340	7.900	.5436	40.06	.0000	180.0	109.9	.1200-01	1263.	93.70	.5340	3746.	.1094-04
341	7.900	.5447	40.06	.0000	180.0	110.9	.1200-01	1268.	94.10	.5380	3755.	.1099-04

RUN NUMBER	MJ	LB-SEC /FT <sup>2</sup>	HREF BTU/ R	ST FR R =
340	.7540-07	0.0175	.1785-01	.5495-01
341	.7575-07	0.0175	.1794-01	.5485-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(11) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DT/DT DEG. R /SEC	TH DEG. R
340	.00000	.00000	1.0000	.6070	.4982	.5420	.1083-01	.8892-02	.9674-02	6.261	34.62	558.5
340	.00000	.50000-02	2.0000	.7222	.5916	.5916	.1289-01	.1056-01	.1056-01	7.373	50.81	564.4
340	.00000	.10000-01	3.0000	.6115	.5016	.5075	.1091-01	.8952-02	.9057-02	6.287	42.09	560.4
340	.00000	.20000-01	4.0000	.4446	.3656	.3802	.7935-02	.6525-02	.6787-02	4.638	25.73	551.9
340	.00000	.30000-01	5.0000	.3450	.2838	.3000	.6157-02	.5066-02	.5355-02	3.611	20.05	549.9
340	.00000	.40000-01	6.0000	.2834	.2333	.2454	.5059-02	.4165-02	.4451-02	2.976	16.54	548.1
340	.00000	.50000-01	7.0000	.2774	.2281	.2460	.4952-02	.4070-02	.4391-02	2.887	19.40	553.3
340	.00000	.60000-01	8.0000	.2811	.2362	.2563	.5124-02	.4215-02	.4571-02	3.000	19.03	550.9
340	.00000	.70000-01	9.0000	.2481	.2040	.2229	.4429-02	.3641-02	.3975-02	2.586	17.93	552.5
340	.00000	.80000-01	10.000	.2051	.1687	.1852	.3661-02	.3011-02	.3306-02	2.140	14.84	551.7
340	.00000	.90000-01	11.000	.1945	.1601	.1764	.3472-02	.2857-02	.3148-02	2.039	12.94	549.2
340	.00000	1.0000+00	12.000	.1772	.1459	.1613	.3163-02	.2604-02	.2879-02	1.858	11.16	548.9
340	.00000	.12000	14.000	.1682	.1386	.1539	.3003-02	.2473-02	.2747-02	1.771	9.852	546.5
340	.00000	.13000	15.000	.1612	.1328	.1478	.2878-02	.2370-02	.2623-02	1.696	9.928	547.0
340	.00000	.14940	16.000	.1494	.1230	.1371	.2666-02	.2195-02	.2446-02	1.571	9.986	547.0
340	.00000	.16000	18.000	.1532	.1262	.1409	.2734-02	.2252-02	.2514-02	1.611	9.950	547.4
340	.00000	.17000	19.000	.1508	.1242	.1388	.2691-02	.2216-02	.2478-02	1.584	10.06	547.9
340	.00000	.18000	20.000	.1532	.1261	.1411	.2734-02	.2251-02	.2519-02	1.609	10.22	547.8
340	.00000	.19000	21.000	.1447	.1192	.1335	.2582-02	.2127-02	.2383-02	1.526	9.706	545.4

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04-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1829)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H19TO) BTU/ R FT2SEC	H1TO) BTU/ R FT2SEC	H1TAM) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHOT DEG. R /SEC	TH DEG. R
340	.00000	.20000	22.000	.1441	.1187	.1331	.2572-02	.2118-02	.2376-02	1.515	9.620	547.2
340	.00000	.22500	23.000	.1361	.1121	.1261	.2429-02	.2001-02	.2250-02	1.433	9.114	546.3
340	.00000	.25000	801.00	.1320	.1087	.1225	.2355-02	.1940-02	.2186-02	1.390	8.838	546.2
340	.00000	.30000	802.00	.1219	.1034	.1131	.2175-02	.1792-02	.2018-02	1.283	8.158	546.4
340	.00000	.35000	803.00	.1266	.1042	.1174	.2259-02	.1860-02	.2096-02	1.330	8.451	547.6
340	.00000	.40000	804.00	.1202	.9900-01	.1115	.2145-02	.1767-02	.1991-02	1.264	8.269	547.2
340	.00000	.45000	805.00	.1088	.8950-01	.1013	.1942-02	.1599-02	.1802-02	1.141	7.686	548.9
340	.00000	.50000	806.00	.1001	.8210-01	.9290-01	.1787-02	.1471-02	.1658-02	1.050	7.296	548.6
340	.00000	.55000	807.00	.9560-01	.9500-01	.8960-01	.1723-02	.1418-02	.1598-02	1.011	7.489	549.6
340	.00000	.60000	808.00	.8650-01	.7110-01	.8020-01	.1543-02	.1270-02	.1431-02	.9060	6.708	549.3
340	.00000	.65000	809.00	.8430-01	.6930-01	.7820-01	.1504-02	.1237-02	.1395-02	.8810	6.517	550.9
340	.00000	.70000	810.00	.8030-01	.6600-01	.7440-01	.1433-02	.1179-02	.1329-02	.8380	6.417	551.3
340	.00000	.75000	811.00	.8010-01	.6590-01	.7430-01	.1429-02	.1176-02	.1325-02	.8360	6.186	551.5
340	.00000	.80000	812.00	.8250-01	.6790-01	.7650-01	.1473-02	.1212-02	.1366-02	.8620	6.379	551.1
340	.00000	.85000	813.00	.7750-01	.6370-01	.7270-01	.1383-02	.1138-02	.1297-02	.8100	6.199	550.9
340	.00000	.90000	814.00	.7240-01	.5960-01	.6810-01	.1293-02	.1064-02	.1215-02	.7590	5.438	549.4
340	.00000	.92500	815.00	.5870-01	.4840-01	.5540-01	.1049-02	.8632-03	.9880-03	.6170	5.077	548.3
340	.00000	.95000	816.00	.5570-01	.4590-01	.5260-01	.9942-03	.8184-03	.9393-03	.5840	4.792	548.7
340	.00000	.97500	817.00	.5570-01	.4580-01	.5270-01	.9934-03	.8174-03	.9409-03	.5820	4.792	550.0
340	.00000	1.0150	818.00	.3310-01	.2730-01	.3150-01	.5913-03	.4873-03	.5620-03	.3500	2.599	544.4
340	.00000	1.0300	819.00	.3590-01	.2960-01	.3410-01	.6409-03	.5284-03	.6092-03	.3800	2.825	543.1
340	.00000	1.0600	821.00	.2530-01	.2140-01	.2460-01	.4622-03	.3812-03	.4395-03	.2750	2.312	542.1
340	.00000	.15000	89.000	.4800-02	.4000-02	.4800-02	.8572-04	.7083-04	.8572-04	.5100-01	.3110	536.0
340	.00000	.20000	91.000	.8100-02	.6700-02	.8100-02	.1444-03	.1194-03	.1444-03	.8700-01	.5400	534.8
340	.00000	.40000	90.000	.1040-01	.8600-02	.1040-01	.1863-03	.1540-03	.1863-03	.1120	.6790	534.3
340	.00000	.50000	823.00	.1183	.9730-01	.1097	.2111-02	.1736-02	.1957-02	1.235	9.790	551.3
340	.00000	.60000	824.00	.1099	.9040-01	.1019	.1962-02	.1614-02	.1819-02	1.147	9.086	552.1
340	.00000	.70000	825.00	.7350-01	.6040-01	.6810-01	.1311-02	.1078-02	.1216-02	.7660	6.796	552.3
340	.00000	.80000	826.00	.8650-01	.7110-01	.8020-01	.1543-02	.1269-02	.1431-02	.8990	6.648	553.6
340	.00000	.90000	827.00	.8100-01	.6660-01	.7510-01	.1446-02	.1189-02	.1340-02	.8450	6.248	552.0
340	.00000	.90000	828.00	.6520-01	.5370-01	.6130-01	.1164-02	.9577-03	.1094-02	.6820	5.413	550.1
340	.00000	.92500	971.00	.1339	.1100	.1339	.2389-02	.1964-02	.2389-02	1.391	10.28	554.1
340	.00000	.95000	975.00	.1371	.1618	.1971	.3517-02	.2889-02	.3517-02	2.040	15.06	556.3
340	.00000	.97500	980.00	.8720-01	.7190-01	.8720-01	.1556-02	.1284-02	.1556-02	.9260	6.888	541.2
340	.00000	.20000	93.000	.8600-02	.7100-02	.8600-02	.1543-03	.1275-03	.1543-03	.9300-01	.5770	535.0
340	.00000	.25000	970.00	.8560-01	.7340-01	.8560-01	.1527-02	.1257-02	.1527-02	.8970	6.645	549.0
340	.00000	.30000	974.00	.1085	.8940-01	.1085	.1937-02	.1595-02	.1937-02	1.142	8.466	546.8
340	.00000	.35000	979.00	.1830-01	.1830-01	.2210-01	.3952-03	.3266-03	.3952-03	.2380	1.774	534.9
340	.00000	.40000	.83100+10	.1386	.1140	.1285	.2473-02	.2035-02	.2294-02	1.451	10.07	549.6
340	.00000	.45000	832.00	.1168	.9600-01	.1083	.2085-02	.1714-02	.1933-02	1.218	8.718	552.0
340	.00000	.50000	833.00	.1017	.8360-01	.9430-01	.1816-02	.1493-02	.1683-02	1.058	7.109	553.7
340	.00000	.55000	834.00	.7510-01	.6170-01	.6960-01	.1340-02	.1101-02	.1242-02	.7780	5.946	555.4
340	.00000	.60000	835.00	.7270-01	.5980-01	.6740-01	.1298-02	.1067-02	.1203-02	.7580	5.426	552.1



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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAL)	H19TO) BTU/ R FT2SEC	H1TO) BTU/ R FT2SEC	H1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEC. R /SEC	TW DEC. R
340	32.000	.90000	835.00	.5980-01	.4920-01	.5620-C1	.1068-02	.8789-03	.1004-02	.6270	4.641	549.6
340	32.000	.95000	837.00	.6010-01	.4950-01	.5680-C1	.1073-02	.8832-03	.1014-02	.6300	4.828	549.2
340	32.000	.97500	838.00	.5520-01	.4540-01	.5230-C1	.9846-03	.8106-03	.9327-03	.5790	4.599	549.1
340	32.000	1.0150	839.00	.4730-01	.3900-01	.4330-C1	.8447-03	.6960-03	.7724-03	.4990	4.044	545.1
340	32.000	1.0300	840.00	.5280-01	.4360-01	.4830-C1	.9432-03	.7776-03	.8627-03	.5590	4.371	543.6
340	32.000	1.0450	841.00	.5890-01	.4850-01	.5390-C1	.1051-02	.8665-03	.9615-03	.6230	4.785	543.9
340	45.000	.92500	969.00	.8300-02	.6900-02	.8300-C2	.1481-03	.1223-03	.1481-03	.8900-01	.6610	537.6
340	45.000	.95000	973.00	.1000-02	.8000-03	.1000-C2	.1730-04	.1430-04	.1730-04	.1000-01	.7700-01	536.3
340	45.000	.97500	978.00	.1700-02	.1400-02	.1700-C2	.2979-04	.2461-04	.2979-04	.1800-01	.1330	535.7
340	75.000	.97500	977.00	.9000-03	.8000-03	.9000-C3	.1648-04	.1361-04	.1648-04	.1000-01	.7400-01	535.7
340	85.000	.97500	976.00	.2000-03	.2000-03	.2000-C3	.4436-05	.3665-05	.4436-05	.3000-02	.2000-01	535.6
340	180.00	.10000-01	59.000	.1109	.9150-01	.1109	.1980-02	.1632-02	.1980-02	.1173	8.711	544.0
340	180.00	.25000-01	60.000	.3020-01	.2490-01	.3020-C1	.5387-03	.4445-03	.5387-03	.3210	2.310	540.7
340	180.00	.50000-01	61.000	.1510-01	.1240-01	.1510-C1	.2687-03	.2218-03	.2687-03	.1610	1.025	538.8
340	180.00	.75000-01	62.000	.1040-01	.8600-02	.1040-C1	.1855-03	.1532-03	.1855-03	.1110	.7090	537.5
340	180.00	.10000+00	63.000	.1230-01	.1020-01	.1230-01	.2194-03	.1812-03	.2194-03	.1310	.8650	536.9
340	180.00	.12500	64.000	.1640-01	.1360-01	.1640-01	.2933-03	.2423-03	.2933-03	.1760	1.230	536.4
340	180.00	.15000	65.000	.2480-01	.2050-01	.2480-01	.4435-03	.3564-03	.4435-03	.2660	1.860	536.4
340	180.00	.16000	66.000	.5630-01	.4650-01	.5630-01	.1006-02	.8304-03	.1006-02	.6020	3.360	538.2
340	180.00	.17000	67.000	.7770-01	.6420-01	.7770-01	.1387-02	.1145-02	.1387-02	.8290	4.632	538.5
340	180.00	.20000	69.000	.1690-01	.1400-01	.1690-01	.3016-03	.2492-03	.3016-03	.1810	1.125	536.1
340	180.00	.40100	72.000	.3200-02	.2700-02	.3200-02	.5772-04	.4770-04	.5772-04	.3500-01	.2960	535.7
340	180.00	.50000	73.000	.2800-02	.2300-02	.2800-02	.5047-04	.4170-04	.5047-04	.3000-01	.2980	536.2
340	180.00	.60100	74.000	.3400-02	.2800-02	.3400-02	.6001-04	.4958-04	.6001-04	.3600-01	.2970	535.9
340	180.00	.70100	75.000	.3500-02	.2900-02	.3500-02	.6246-04	.5161-04	.6246-04	.3800-01	.3000	535.6

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

FUSELAGE

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## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 10.06 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
336	7.980	2.004	40.12	.0000	180.0	430.8	.4500-01	1292.	94.10	1.999	3792.	.4001-04
337	7.980	2.002	40.05	.0000	180.0	430.7	.4500-01	1292.	94.10	1.999	3793.	.3999-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
336	.7572-07	.3469-01		0.0175
337	.7575-07	.3469-01		.2880-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(1TO) BTU/ R FT <sup>2</sup> SEC	H(TAW) BTU/ R FT <sup>2</sup> SEC	QOOT BTU/ R FT <sup>2</sup> SEC	DTHOT DEG. R /SEC	TM DEG. R
336	.00000	.00000	1.0000	.6040	.4945	.5387	.2095-01	.1715-01	.1869-01	12.22	66.86	579.5
336	.00000	.50000-02	2.0000	.7031	.5730	.5730	.2439-01	.1988-01	.1988-01	13.88	94.23	593.8
336	.00000	.10000-01	3.0000	.6356	.5191	.5252	.2205-01	.1861-01	.1822-01	12.69	83.82	587.3
336	.00000	.20000-01	4.0000	.4375	.3597	.3740	.1518-01	.1241-01	.1298-01	9.057	49.89	566.0
336	.00000	.30000-01	5.0000	.3386	.2788	.2946	.1175-01	.0871-02	.1022-01	7.067	39.03	561.1
336	.00000	.40000-01	6.0000	.2827	.2330	.2489	.9807-02	.8082-02	.8633-02	5.938	32.86	557.2
336	.00000	.50000-01	7.0000	.2770	.2276	.2455	.9609-02	.8515-02	.8515-02	5.719	38.16	567.6
336	.00000	.60000-01	8.0000	.2803	.2306	.2502	.9723-02	.7999-02	.8679-02	5.826	36.72	563.5
336	.00000	.70000-01	9.0000	.2466	.2027	.2215	.8556-02	.7031-02	.7683-02	5.098	35.09	566.9
336	.00000	.80000-01	10.000	.2029	.1670	.1833	.7038-02	.5792-02	.6357-02	4.225	29.14	562.4
336	.00000	.90000-01	11.000	.1903	.1568	.1727	.6602-02	.5440-02	.5989-02	3.991	25.22	558.2
336	.00000	.10000-00	12.000	.1762	.1451	.1604	.6111-02	.5035-02	.5564-02	3.693	22.08	558.4
336	.00000	.12000	14.000	.1631	.1345	.1493	.5656-02	.4542-02	.5178-02	3.442	19.07	554.3
336	.00000	.13000	15.000	.1588	.1309	.1456	.5503-02	.4542-02	.5050-02	3.345	19.50	555.4
336	.00000	.14000	16.000	.1448	.1193	.1329	.5021-02	.4140-02	.4609-02	3.046	19.27	556.1
336	.00000	.16000	18.000	.1513	.1246	.1391	.5247-02	.4323-02	.4825-02	3.173	19.50	558.0
336	.00000	.17000	19.000	.1495	.1232	.1376	.5186-02	.4272-02	.4775-02	3.132	19.78	559.9
336	.00000	.18000	20.000	.1506	.1240	.1388	.5225-02	.4303-02	.4814-02	3.151	19.90	559.7
336	.00000	.19000	21.000	.1380	.1137	.1273	.4786-02	.3945-02	.4416-02	2.902	18.36	556.3

AEDC VKF V418-57A (OH-498) COLLATION DECK  
OH-498 (AEDC V418-57A) ORBITER FUSELAGE

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R. NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AM) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
336	.00000	.20000	22.000	.1427	.1175	.1318	.4950-02	.4077-02	.4572-02	2.988	18.87	559.2
336	.00000	.22500	23.000	.1370	.1129	.1269	.4754-02	.3917-02	.4403-02	2.875	18.17	558.0
336	.00000	.25000	801.00	.1287	.1060	.1194	.4463-02	.3677-02	.4140-02	2.696	17.04	558.6
336	.00000	.30000	802.00	.1230	.1013	.1141	.4266-02	.3513-02	.3957-02	2.572	16.24	559.8
336	.00000	.35000	803.00	.1246	.1025	.1155	.4323-02	.3556-02	.4008-02	2.587	16.30	564.2
336	.00000	.40000	804.00	.1214	.9980-01	.1126	.4212-02	.3463-02	.3904-02	2.517	16.32	565.2
336	.00000	.45000	805.00	.1109	.9110-01	.1028	.3848-02	.3160-02	.3565-02	2.284	15.22	569.3
336	.00000	.50000	806.00	.9940-01	.60-01	.9210-01	.3448-02	.2831-02	.3194-02	2.042	14.03	570.3
336	.00000	.55000	807.00	.9530-01	.810-01	.8820-01	.3306-02	.2711-02	.3061-02	1.946	14.24	574.1
336	.00000	.60000	808.00	.8860-01	.7270-01	.8210-01	.3075-02	.2521-02	.2847-02	1.808	13.22	574.7
336	.00000	.65000	809.00	.8910-01	.7290-01	.8240-01	.3090-02	.2530-02	.2859-02	1.805	13.17	578.5
336	.00000	.70000	810.00	.9090-01	.7440-01	.8410-01	.3152-02	.2580-02	.2916-02	1.835	13.84	580.6
336	.00000	.75000	811.00	.1046	.8560-01	.9680-01	.3629-02	.2969-02	.3357-02	2.108	15.36	581.7
336	.00000	.80000	812.00	.1275	.1043	.1179	.4422-02	.3618-02	.4091-02	2.572	18.75	581.0
336	.00000	.85000	813.00	.1366	.1118	.1278	.4740-02	.3878-02	.4434-02	2.754	20.77	581.6
336	.00000	.90000	814.00	.1448	.1185	.1358	.5021-02	.4112-02	.4709-02	2.933	20.72	578.5
336	.00000	.92500	815.00	.1294	.1050	.1217	.4489-02	.3679-02	.4222-02	2.633	21.38	576.1
336	.00000	.95000	816.00	.1415	.1159	.1334	.4909-02	.4019-02	.4629-02	2.865	23.22	579.2
336	.00000	.97500	817.00	.1595	.1304	.1508	.5535-02	.4525-02	.5231-02	3.205	25.92	583.7
336	.00000	1.0150	818.00	.1172	.9630-01	.1113	.4065-02	.3340-02	.3859-02	2.421	17.77	567.1
336	.00000	1.0300	819.00	.1134	.9330-01	.1077	.3934-02	.3236-02	.3736-02	2.354	17.31	564.3
336	.00000	1.0600	821.00	.1051	.8630-01	.9980-01	.3645-02	.2995-02	.3461-02	2.168	18.01	568.0
336	10.000	.15000	89.000	.4600-02	.3800-02	.4600-02	.1586-03	.1315-03	.1586-03	.9900-01	.5990	537.6
336	11.500	.20000	91.000	.8200-02	.6800-02	.8200-02	.2847-03	.2360-03	.2847-03	.1780	1.109	536.0
336	14.000	.50000-01	50.000	.1070-01	.8800-02	.1070-01	.3697-03	.3064-03	.3697-03	.2310	1.397	537.3
336	17.500	.40000	823.00	.1140	.9360-01	.1056	.3956-02	.3246-02	.3664-02	2.338	18.34	571.8
336	17.500	.50000	824.00	.1048	.8590-01	.9700-01	.3635-02	.2979-02	.3365-02	2.133	16.70	576.0
336	17.500	.60000	825.00	.6970-01	.5710-01	.6450-01	.2419-02	.1981-02	.2239-02	1.412	12.37	578.9
336	17.500	.70000	826.00	.9380-01	.7670-01	.8670-01	.3252-02	.2660-02	.3008-02	1.886	13.74	582.7
336	17.500	.80000	827.00	.1166	.9240-01	.1079	.4044-02	.3309-02	.3741-02	2.353	17.15	581.0
336	17.500	.90000	828.00	.1280	.1048	.1200	.4439-02	.3635-02	.4163-02	2.594	20.28	578.4
336	20.000	.92500	971.00	.1818	.1488	.1818	.6306-02	.5160-02	.6306-02	3.670	26.76	580.7
336	20.000	.95000	975.00	.2145	.1755	.2145	.7440-02	.6089-02	.7440-02	4.331	31.58	580.6
336	20.000	.97500	980.00	.9950-01	.8210-01	.9950-01	.3451-02	.2849-02	.3451-02	2.110	15.62	551.1
336	24.000	.20000	93.000	.1150-01	.9500-02	.1150-01	.3981-03	.3300-03	.3981-03	.2430	1.548	536.7
336	30.000	.92500	970.00	.1504	.1235	.1504	.5218-02	.4284-02	.5218-02	3.091	22.66	570.3
336	30.000	.95000	974.00	.1309	.1150	.1399	.4853-02	.3990-02	.4853-02	2.898	21.29	565.6
336	30.000	.97500	979.00	.2210-01	.1830-01	.2210-01	.7660-03	.6344-03	.7660-03	4.770	3.549	540.1
336	32.000	.40000	83100+10	.1356	.1115	.1257	.4705-02	.3866-02	.4360-02	2.603	19.29	566.9
336	32.000	.50000	832.00	.1135	.9300-01	.1051	.3937-02	.3227-02	.3645-02	2.309	16.33	576.1
336	32.000	.60000	833.00	.1007	.8240-01	.9320-01	.3493-02	.2859-02	.3232-02	2.035	13.50	580.1
336	32.000	.70000	834.00	.9560-01	.7810-01	.8840-01	.3316-02	.2859-02	.3066-02	1.918	14.44	584.2
336	32.000	.80000	835.00	.1026	.8400-01	.9490-01	.3560-02	.2913-02	.3294-02	2.069	14.60	581.5

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1629)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H19T0 BTU/ R FT2SEC	H1T0 BTU/ R FT2SEC	H1TAM BTU/ R FT2SEC	COOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TM DEG. R
336	32.000	.90000	836.00	.1194	.9780-01	.1120	.4142-02	.3354-02	.3885-02	2.428	17.74	576.4
336	32.000	.95000	837.00	.1397	.1145	.1317	.4846-02	.3971-02	.4570-02	2.841	21.47	576.5
336	32.000	.97500	838.00	.1613	.1320	.1525	.5595-02	.4578-02	.5289-02	3.255	25.42	581.0
336	32.000	1.0150	839.00	.1291	.1059	.1178	.4478-02	.3674-02	.4085-02	2.644	21.12	572.2
336	32.000	1.0300	840.00	.1254	.1030	.1145	.4349-03	.3574-02	.3971-02	2.591	20.03	566.9
336	32.000	1.0450	841.00	.1327	.1090	.1211	.4602-02	.3780-02	.4201-02	2.735	20.77	568.0
336	32.000	.92500	969.00	.2020-01	.1670-01	.2020-01	.6997-03	.5780-03	.6997-03	.4330	3.220	543.2
336	45.000	.95000	973.00	.1600-02	.1300-02	.1600-02	.5553-04	.4599-04	.5553-04	.3500-01	.2570	540.3
336	45.000	.97500	978.00	.1700-02	.1400-02	.1700-02	.5742-04	.4756-04	.5742-04	.3500-01	.2570	539.1
336	75.000	.97500	977.00	.9000-03	.8000-03	.9000-03	.3142-04	.2603-04	.3142-04	.2000-01	.1460	539.2
336	85.000	.97500	375.00	.5000-03	.5000-03	.5000-03	.1890-04	.1566-04	.1890-04	.1200-01	.8800-01	538.7
336	180.00	.10000-01	59.000	.1023	.8460-01	.1023	.3550-02	.2934-02	.3550-02	2.185	16.20	547.3
336	180.00	.25000-01	60.000	.2590-01	.2150-01	.2590-01	.9001-03	.7451-03	.9001-03	.5590	4.022	541.7
336	180.00	.50000-01	61.000	.360-01	.1130-01	.1360-01	.4734-03	.3920-03	.4734-03	.2950	1.878	540.5
336	180.00	.75000-01	62.000	.1250-01	.1040-01	.1250-01	.4342-03	.3586-03	.4342-03	.2700	1.725	539.9
336	180.00	1.0000+00	63.000	.2120-01	.1760-01	.220-01	.7359-03	.6094-03	.7359-03	.4580	3.008	540.1
336	180.00	.12500	64.000	.2780-01	.2300-01	.2780-01	.9647-03	.7539-03	.9647-03	.6010	4.189	540.2
336	180.00	.15000	65.000	.3633-01	.3010-01	.3630-01	.1260-02	.1043-02	.1260-02	.7840	5.469	540.4
336	180.00	.16000	66.000	.9610-01	.7950-01	.9610-01	.3333-02	.2757-02	.3333-02	2.059	11.46	545.1
336	180.00	.17000	67.000	.1080	.8930-01	.1080	.3748-02	.3098-02	.3748-02	2.307	12.83	547.1
336	180.00	.20000	69.000	.1930-01	.1600-01	.1930-01	.6708-03	.5558-03	.6708-03	.4190	2.559	538.3
336	180.00	.40100	72.000	.4600-02	.3800-02	.4600-02	.1582-03	.1311-03	.1582-03	.9900-01	.8410	536.3
336	180.00	.50000	73.000	.5600-02	.4700-02	.5600-02	.1948-03	.1614-03	.1948-03	1.220	1.034	538.9
336	180.00	.60100	74.000	.5700-02	.4700-02	.5700-02	.1976-03	.1537-03	.1976-03	.1230	1.014	539.4
336	180.00	.70100	75.000	.4600-02	.3800-02	.4600-02	.1602-03	.1328-03	.1602-03	.1000+00	.7990	538.0

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

FUSELAGE

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 10.00 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
332	8.000	3.801	40.13	.0000	180.0	860.1	.8800-01	1331.	92.40	3.947	3849.	.7666-04
333	8.000	3.828	40.14	.0000	180.0	861.1	.8800-01	1325.	96.00	3.951	3842.	.7705-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR R =
332	LB-SEC /FT2	.4899-01	0.0175
333	.7733-07	.4898-01	.2081-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTADT DEG. R /SEC	TH DEG. R
332	.00000	.00000	1.0000	.5916	.4852	.5282	.2898-01	.2377-01	.2587-01	17.58	95.63	591.0
332	.00000	.50000-02	2.0000	.6975	.5684	.5684	.3417-01	.2785-01	.2785-01	20.02	134.8	611.6
332	.00000	.10000-01	3.0000	.6225	.5088	.5148	.3050-01	.2492-01	.2522-01	18.15	119.0	602.5
332	.00000	.20000-01	4.0000	.4358	.3593	.3735	.2135-01	.1760-01	.1830-01	13.35	73.27	572.5
332	.00000	.30000-01	5.0000	.3347	.2765	.2919	.1640-01	.1355-01	.1430-01	10.37	57.17	564.9
332	.00000	.40000-01	6.0000	.2869	.2373	.2532	.1405-01	.1163-01	.1240-01	8.957	49.48	560.2
332	.00000	.50000-01	7.0000	.2747	.2263	.2439	.1346-01	.1109-01	.1195-01	8.375	55.66	575.3
332	.00000	.60000-01	8.0000	.2814	.2322	.2517	.1379-01	.1139-01	.1233-01	8.652	54.36	570.0
332	.00000	.70000-01	9.0000	.2488	.2049	.2237	.1219-01	.1004-01	.1096-01	7.584	51.98	575.2
332	.00000	.80000-01	10.000	.1955	.1614	.1769	.9577-02	.7905-02	.8665-02	6.023	41.41	568.7
332	.00000	.90000-01	11.000	.1881	.1555	.1709	.9215-02	.7617-02	.8373-02	5.848	35.87	562.9
332	.00000	.10000*00	12.000	.1775	.1467	.1619	.8697-02	.7159-02	.7931-02	5.516	32.89	563.3
332	.00000	.12000	14.000	.1632	.1351	.1496	.7993-02	.6616-02	.7329-02	5.112	28.27	557.9
332	.00000	.13000	15.000	.1562	.1292	.1435	.7654-02	.6333-02	.7028-02	4.882	28.40	559.7
332	.00000	.14000	16.000	.1435	.1187	.1319	.7032-02	.5815-02	.6464-02	4.473	28.22	561.4
332	.00000	.16000	18.000	.1509	.1247	.1390	.7393-02	.6109-02	.6807-02	4.677	28.64	564.9
332	.00000	.17000	19.000	.1490	.1230	.1373	.7299-02	.6027-02	.6726-02	4.602	28.96	567.0
332	.00000	.18000	20.000	.1484	.1225	.1359	.7270-02	.6001-02	.6705-02	4.574	28.76	568.4
332	.00000	.19000	21.000	.1442	.1191	.1332	.7062-02	.5836-02	.6524-02	4.474	28.19	564.1

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(RV1829)

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(TOI) BTU/R FT2SEC	H(TOI) BTU/R FT2SEC	H(TAN) BTU/R FT2SEC	QOOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
332	.00000	.20000	22.000	.1436	.1186	.1338	.7035-02	.5808-02	.6505-02	4.427	27.84	568.4
332	.00000	.22500	23.000	.1349	.1114	.1231	.6609-02	.5457-02	.6127-02	4.166	26.21	567.2
332	.00000	.25000	801.00	.1293	.1067	.1230	.6333-02	.5227-02	.5880-02	3.983	25.04	568.6
332	.00000	.30000	802.00	.1224	.1010	.1136	.5996-02	.4946-02	.5565-02	3.758	23.60	570.8
332	.00000	.35000	803.00	.1291	.1063	.1137	.6324-02	.5206-02	.5865-02	3.919	24.53	577.9
332	.00000	.40000	804.00	.1240	.1020	.1149	.6074-02	.4997-02	.5631-02	3.751	24.14	580.0
332	.00000	.45000	805.00	.1129	.9280-01	.1046	.5531-02	.4546-02	.5126-02	3.399	22.50	583.0
332	.00000	.50000	806.00	.1066	.8760-01	.1066	.5223-02	.4290-02	.4839-02	3.194	21.77	586.0
332	.00000	.55000	807.00	.1094	.8370-01	.1013	.5359-02	.4392-02	.4961-02	3.240	23.48	592.8
332	.00000	.60000	808.00	.1326	.1086	.1237	.6494-02	.5318-02	.6010-02	3.907	28.27	596.0
332	.00000	.65000	809.00	.2117	.1725	.1935	.1037-01	.8450-02	.1424-01	6.064	64.74	628.8
332	.00000	.70000	810.00	.3154	.2556	.2936	.1545-01	.1252-01	.1626-01	8.788	70.81	633.3
332	.00000	.75000	811.00	.3606	.2918	.3320	.1766-01	.1429-01	.1826-01	9.474	69.61	633.2
332	.00000	.80000	812.00	.3640	.2945	.3351	.1783-01	.1443-01	.1842-01	9.105	71.42	633.7
332	.00000	.85000	813.00	.3433	.2777	.3198	.1682-01	.1362-01	.1567-01	8.788	64.74	628.8
332	.00000	.90000	814.00	.3286	.2664	.3071	.1610-01	.1305-01	.1504-01	8.186	63.36	626.8
332	.00000	.95000	815.00	.2873	.2324	.2695	.1407-01	.1144-01	.1320-01	8.131	64.62	619.8
332	.00000	.99500	816.00	.2865	.2324	.2694	.1404-01	.1138-01	.1320-01	8.017	63.51	626.4
332	.00000	.97500	817.00	.3016	.2440	.2841	.1477-01	.1155-01	.1382-01	8.336	65.81	633.3
332	.00000	1.0150	818.00	.1979	.1623	.1878	.9694-02	.7950-02	.8972-02	5.878	42.64	591.2
332	.00000	1.0300	819.00	.1930	.1584	.1831	.9453-02	.7758-02	.8972-02	5.755	41.79	588.8
332	.00000	1.0600	821.00	.1731	.1417	.1641	.8478-02	.6941-02	.8041-02	5.096	41.74	596.4
332	.00000	.15000	89.000	.5200-02	.4300-02	.5200-02	.2558-03	.2130-03	.2558-03	.1690	1.023	535.8
332	.00000	.20000	91.000	.7800-02	.6500-02	.7800-02	.3798-03	.3161-03	.3798-03	.2510	1.555	538.1
332	.00000	.50000-01	90.000	.1010-01	.8400-02	.1010-01	.4949-03	.4119-03	.4949-03	.3270	1.974	537.3
332	.00000	.40000	823.00	.1121	.9200-01	.1038	.5492-02	.4506-02	.5086-02	3.340	25.98	589.3
332	.00000	.50000	824.00	.1074	.8800-01	.9940-01	.5263-02	.4309-02	.4870-02	3.163	24.51	596.7
332	.00000	.60000	825.00	.1009	.8250-01	.9330-01	.4944-02	.4041-02	.4572-02	2.945	25.50	601.8
332	.00000	.70000	826.00	.3709	.2998	.3414	.1817-01	.1469-01	.1672-01	10.20	72.38	636.1
332	.00000	.80000	827.00	.3568	.2889	.3286	.1748-01	.1415-01	.1610-01	9.896	70.38	631.4
332	.00000	.90000	828.00	.2875	.2332	.2687	.1408-01	.1142-01	.1316-01	8.050	61.50	625.9
332	.00000	.92500	971.00	.1926	.1574	.2374	.1163-01	.9492-02	.1163-01	5.615	40.50	602.5
332	.00000	.95000	975.00	.2374	.1938	.2374	.1163-01	.9492-02	.1163-01	5.663	49.38	607.5
332	.00000	.97500	980.00	.1101	.9110-01	.1101	.5392-02	.4464-02	.5392-02	3.451	25.45	557.5
332	.00000	.20000	93.000	.1300-01	.1080-01	.1300-01	.6349-03	.5283-03	.6349-03	.4190	2.598	538.3
332	.00000	.30000	970.00	.1494	.1226	.1494	.7317-02	.6008-02	.7317-02	4.470	32.49	586.6
332	.00000	.40000	974.00	.1550	.1273	.1550	.7594-02	.6237-02	.7594-02	4.646	33.79	585.7
332	.00000	.50000	979.00	.1363	.1121	.1363	.6677-02	.5490-02	.6677-02	4.110	28.08	581.9
332	.00000	.63100+10	831.00	.3430-01	.2850-01	.3430-01	.6677-02	.5490-02	.6677-02	4.110	28.08	581.9
332	.00000	.40000	979.00	.1363	.1121	.1363	.6677-02	.5490-02	.6677-02	4.110	28.08	581.9
332	.00000	.50000	832.00	.1082	.8860-01	.1082	.5299-02	.4342-02	.4905-02	3.200	22.43	593.7
332	.00000	.60000	833.00	.1252	.1024	.1158	.6136-02	.5015-02	.6136-02	3.653	23.95	602.2
332	.00000	.70000	834.00	.2004	.1629	.1849	.9815-02	.7982-02	.9057-02	5.688	42.12	618.0
332	.00000	.80000	835.00	.3295	.2671	.3036	.1614-01	.1309-01	.1488-01	9.199	63.43	627.7

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TM DEG. R
332	32.000	.90000	836.00	.3007	.2443	.2812	.1473-01	.1197-01	.1378-01	8.477	60.56	622.1
332	32.000	.95000	837.00	.2995	.2435	.2818	.1467-01	.1193-01	.1390-01	8.479	62.74	619.7
332	32.000	.97500	838.00	.3072	.2491	.2836	.1505-01	.1220-01	.1419-01	8.580	65.51	627.4
332	32.000	1.0150	839.00	.2349	.1915	.2136	.1151-01	.9380-02	.1046-01	6.757	52.97	610.2
332	32.000	1.0300	840.00	.2055	.1682	.1872	.1007-01	.8241-02	.9173-02	6.049	46.06	596.6
332	32.000	1.0450	841.00	.2053	.1681	.1871	.1006-01	.8234-02	.9165-02	6.047	45.26	596.2
332	45.000	.92500	969.00	.2370-01	.1970-01	.2370-01	.1160-02	.9632-03	.1160-02	.7560	5.609	545.7
332	45.000	.95000	973.00	.2200-02	.1800-02	.2200-02	.1090-03	.9058-04	.1090-03	.7100-01	.5300	542.3
332	45.000	.97500	978.00	.1800-02	.1500-02	.1800-02	.8992-04	.7475-04	.8992-04	.5900-01	.4380	542.5
332	75.000	.97500	977.00	.6000-03	.5000-03	.6000-03	.2712-04	.2254-04	.2712-04	.1800-01	.1320	542.2
332	85.000	.97500	976.00	.1600-02	.1300-02	.1600-02	.7609-04	.6325-04	.7609-04	.5000-01	.3710	545.0
332	180.00	.10000-01	53.000	.9800-01	.8140-01	.9800-01	.4800-02	.3987-02	.4800-02	3.132	23.25	537.5
332	180.00	.25000-01	60.000	.2420-01	.2010-01	.2420-01	.1184-02	.9854-03	.1184-02	.7820	5.635	536.8
332	180.00	.50000-01	61.000	.1350-01	.1120-01	.1350-01	.6619-03	.5510-03	.6619-03	.4370	2.794	538.1
332	180.00	.75000-01	62.000	.1490-01	.1240-01	.1490-01	.7295-03	.6070-03	.7295-03	.4810	3.071	540.0
332	180.00	.10000+00	63.000	.2590-01	.2160-01	.2590-01	.1270-02	.1056-02	.1270-02	.8350	5.482	541.5
332	180.00	.12500	64.000	.2980-01	.2480-01	.2980-01	.1459-02	.1213-02	.1459-02	.9570	6.670	542.7
332	180.00	.15000	65.000	.3490-01	.2900-01	.3490-01	.1708-02	.1420-02	.1708-02	1.118	7.79	551.2
332	180.00	.16000	66.000	.8990-01	.7460-01	.8990-01	.4405-02	.3653-02	.4405-02	2.847	15.80	551.9
332	180.00	.17000	67.000	.1169	.9700-01	.1169	.5729-02	.4750-02	.5729-02	3.699	20.52	540.8
332	180.00	.20000	69.000	.1640-01	.1370-01	.1640-01	.8051-03	.6695-03	.8051-03	.5290	3.277	540.1
332	180.00	.40100	72.000	.6900-02	.5700-02	.6900-02	.3364-03	.2798-03	.3364-03	.2210	1.881	540.5
332	180.00	.50000	73.000	.8200-02	.6900-02	.8200-02	.4007-03	.3332-03	.4007-03	.2630	2.239	540.6
332	180.00	.60100	74.000	.7200-02	.5900-02	.7200-02	.3505-03	.2914-03	.3505-03	.2300	1.895	539.4
332	180.00	.70100	75.000	.4900-02	.4100-02	.4900-02	.2368-03	.1986-03	.2368-03	.1570	1.254	

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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## FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1830)

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = 15.00 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 5 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
360	7.980	1.985	19.97	.0000	180.0	428 5	.4500-01	1295.	94.30	1.989	3797.	.3969-04
361	7.980	1.997	19.99	.0000	180.0	430 1	.4500-01	1293.	94.20	1.996	3794.	.3991-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR R =
360	LB-SEC /FT2		0.0175
361	.7580-07	.3461-01	.2892-01
	.7580-07	.3467-01	.2884-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11W) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
360	.00000	.00000	1.0000	.9107	.7371	.7546	.3152-01	.2551-01	.2612-01	17.33	93.13	616.0
360	.00000	.5000-02	2.0000	.7482	.6061	.6205	.2590-01	.2098-01	.2148-01	14.30	96.16	613.7
360	.00000	.10000-01	3.0000	.5498	.4486	.4790	.1903-01	.1553-01	.1639-01	10.93	72.07	591.4
360	.00000	.20000-01	4.0000	.3295	.2715	.3033	.1141-01	.9396-02	.1050-01	6.907	38.16	560.2
360	.00000	.30000-01	5.0000	.2327	.1921	.2193	.8055-02	.6650-02	.7590-02	4.940	27.40	552.5
360	.00000	.40000-01	6.0000	.1909	.1578	.1825	.6607-02	.5461-02	.6317-02	4.078	22.66	548.6
360	.00000	.50000-01	7.0000	.1651	.1363	.1595	.5715-02	.4716-02	.5520-02	3.496	23.48	554.1
360	.00000	.60000-01	8.0000	.1606	.1327	.1563	.5558-02	.4591-02	.5410-02	3.420	21.70	550.5
360	.00000	.70000-01	9.0000	.1323	.1093	.1298	.4580-02	.3783-02	.4491-02	2.813	19.51	551.5
360	.00000	.80000-01	10.000	.1078	.8910-01	.1063	.3732-02	.3085-02	.3681-02	2.303	16.00	548.7
360	.00000	.90000-01	11.000	.9770-01	.8090-01	.6880-01	.3383-02	.2798-02	.3349-02	2.099	13.35	545.3
360	.00000	.10000+00	12.000	.8650-01	.7160-01	.6600-01	.2994-02	.2478-02	.2976-02	1.860	11.20	544.4
360	.00000	.12000	14.000	.7680-01	.6360-01	.7670-01	.2657-02	.2201-02	.2654-02	1.660	9.256	541.2
360	.00000	.13000	15.000	.7000-01	.5790-01	.7000-01	.2421-02	.2005-02	.2423-02	1.512	8.873	541.5
360	.00000	.14000	16.000	.6340-01	.5230-01	.6350-01	.2193-01	.1816-02	.2197-02	1.369	8.722	541.7
360	.00000	.16000	18.000	.6210-01	.5140-01	.6240-01	.2150-02	.1780-02	.2159-02	1.340	8.702	542.4
360	.00000	.17000	19.000	.6300-01	.5220-01	.6300-01	.2182-02	.1806-02	.2193-02	1.360	8.700	542.5
360	.00000	.18000	20.000	.6480-01	.5370-01	.6520-01	.2244-02	.1858-02	.2258-02	1.398	8.901	543.0
360	.00000	.19000	21.000	.5580-01	.4620-01	.5620-01	.1932-02	.1600-02	.1946-02	1.207	7.697	540.9



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF ("A")	H(10) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
360	.00000	.20000	22.000	.5900-01	.4960-01	.6043-01	.2075-02	.1718-02	.2092-02	1.292	8.232	542.8
360	.00000	.22500	23.000	.5400-01	.4473-01	.5463-01	.1870-02	.1548-02	.1890-02	1.165	7.418	542.9
360	.00000	.25000	801.00	.5120-01	.4240-01	.5.83-01	.1772-02	.1467-02	.1794-02	1.104	7.029	543.0
360	.00000	.30000	802.00	.4620-01	.3830-01	.4683-01	.1500-02	.1324-02	.1620-02	.9960	6.338	543.6
360	.00000	.35000	803.00	.4590-01	.3880-01	.4753-01	.1624-02	.1343-02	.1644-02	1.006	6.398	546.1
360	.00000	.40000	804.00	.4620-01	.3820-01	.4683-01	.1599-02	.1323-02	.1620-02	.9900	6.474	547.1
360	.00000	.45000	805.00	.3990-01	.3300-01	.4043-01	.1380-02	.1141-02	.1398-02	.8520	5.736	548.8
360	.00000	.50000	806.00	.3700-01	.3060-01	.3753-01	.1282-02	.1059-02	.1293-02	.7900	5.482	549.9
360	.00000	.55000	807.00	.3520-01	.2910-01	.3573-01	.1219-02	.1007-02	.1234-02	.7480	5.537	551.7
360	.00000	.60000	808.00	.3110-01	.2570-01	.3153-01	.1075-02	.8884-03	.1090-02	.6600	4.885	551.9
360	.00000	.65000	809.00	.2820-01	.2320-01	.2853-01	.9744-03	.8043-03	.9868-03	.5970	4.412	553.2
360	.00000	.70000	810.00	.2600-01	.2150-01	.2630-01	.9001-03	.7428-03	.9115-03	.5510	4.211	553.8
360	.00000	.75000	811.00	.2660-01	.2200-01	.2700-01	.9221-03	.7610-03	.9338-03	.5640	4.169	553.9
360	.00000	.80000	812.00	.2940-01	.2420-01	.2970-01	.1017-02	.8390-03	.1030-02	.6220	4.596	553.9
360	.00000	.85000	813.00	.2820-01	.2320-01	.2880-01	.9746-03	.8046-03	.9969-03	.5970	4.569	552.8
360	.00000	.90000	814.00	.2820-01	.2160-01	.2680-01	.9055-03	.7487-03	.9290-03	.5570	3.992	550.8
360	.00000	.92500	815.00	.1980-01	.1640-01	.2049-01	.6864-03	.5673-03	.7050-03	.4230	3.484	549.1
360	.00000	.95000	816.00	.1770-01	.1460-01	.1820-01	.6110-03	.5051-03	.6290-03	.3770	3.106	548.3
360	.00000	.97500	817.00	.1520-01	.1260-01	.1570-01	.5260-03	.4348-03	.5427-03	.3250	2.674	548.2
360	.00000	1.0150	818.00	.7100-02	.5900-02	.7400-02	.2462-03	.2038-03	.2546-03	.1530	1.138	543.5
360	.00000	1.0300	819.00	.8100-02	.6700-02	.8-00-02	.2821-03	.2335-03	.2917-03	.1760	1.306	542.7
360	.00000	1.0500	821.00	.5600-02	.4600-02	.5800-02	.1925-03	.1593-03	.1990-03	.1200	1.008	543.2
360	.00000	1.1500	89.000	.1650-01	.1400-01	.1690-01	.5847-03	.4851-03	.5847-03	.3690	2.231	534.9
360	.00000	2.0000	91.000	.3150-01	.2610-01	.3150-01	.1090-02	.9036-03	.1090-02	.6850	4.254	537.2
360	.00000	50000-01	90.000	.1050-01	.8700-02	.1050-01	.3640-03	.3021-03	.3640-03	.2300	1.391	534.1
360	.00000	.40000	823.00	.4940-01	.4080-01	.5000-01	.1710-02	.1413-02	.1732-02	1.052	8.346	550.5
360	.00000	.50000	824.00	.4630-01	.3820-01	.4690-01	.1602-02	.1322-02	.1622-02	.9790	7.748	554.6
360	.00000	.60000	825.00	.3080-01	.2540-01	.3120-01	.1065-02	.8769-03	.1079-02	.6510	5.771	554.6
360	.00000	.70000	826.00	.3560-01	.2930-01	.3600-01	.1231-02	.1016-02	.1247-02	.7520	5.549	555.3
360	.00000	.80000	827.00	.3420-01	.2820-01	.3460-01	.1182-02	.9754-03	.1197-02	.7220	5.335	554.8
360	.00000	.90000	828.00	.2660-01	.2200-01	.2730-01	.9217-03	.7612-03	.9446-03	.5660	4.489	551.4
360	.00000	.92500	971.00	.4130-01	.3450-01	.4180-01	.1447-02	.1195-02	.1447-02	.8900	6.587	550.5
360	.00000	.95000	975.00	.7980-01	.6530-01	.7980-01	.2763-02	.2280-02	.2763-02	1.688	12.47	554.8
360	.00000	.97500	933.00	.2900-01	.2400-01	.2900-01	.1005-02	.8324-03	.1005-02	.6270	4.660	542.1
360	.00000	20.000	93.000	.4120-01	.3420-01	.4120-01	.1428-02	.1183-02	.1428-02	.8960	5.560	538.3
360	.00000	.95000	970.00	.1340-01	.1110-01	.1340-01	.4651-03	.3850-03	.4651-03	.2900	2.151	543.2
360	.00000	.95000	974.00	.3030-01	.2510-01	.3030-01	.1049-02	.8684-03	.1049-02	.6530	4.816	543.8
360	.00000	.97500	979.00	.8100-02	.6700-02	.8100-02	.2787-03	.2311-03	.2787-03	1.750	1.334	537.8
360	.00000	.40000	.93100+10	.7310-01	.6040-01	.7400-01	.2530-02	.2090-02	.2562-02	1.556	10.79	550.8
360	.00000	.832.00	832.00	.6070-01	.5000-01	.6140-01	.2099-02	.1732-02	.2126-02	1.282	9.164	555.0
360	.00000	.60000	833.00	.5310-01	.4370-01	.5370-01	.1837-02	.1514-02	.1860-02	1.118	7.497	557.1
360	.00000	.834.00	834.00	.5180-01	.4270-01	.5250-01	.1794-02	.1478-02	.1817-02	1.088	8.291	559.4
360	.00000	.835.00	835.00	.3460-01	.2850-01	.3500-01	.1198-02	.9880-03	.1213-02	.7320	5.229	554.9

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1830)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAIL)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHOT DEG. R /SEC	TW DEG. R
360	32.000	.90000	836.00	.2290-01	.1890-01	.2250-01	.7926-03	.6547-03	.8123-03	.4870	3.607	550.8
360	32.000	.95000	837.00	.3630-01	.2990-01	.3730-01	.1255-02	.1037-02	.1292-02	.4870	5.901	551.5
360	32.000	.97500	838.00	.4100-01	.3390-01	.4230-01	.1420-02	.1172-02	.1465-02	.7710	6.897	552.6
360	32.000	1.0150	339.00	.2920-01	.2420-01	.2520-01	.1011-02	.8362-03	.1009-02	.6250	5.056	547.6
360	32.000	1.0300	840.00	.3250-01	.2680-01	.3240-01	.1124-02	.9293-03	.1122-02	.6950	5.425	547.2
360	32.000	1.0450	841.00	.3570-01	.2950-01	.3560-01	.1236-02	.1022-02	.1233-02	.7630	5.853	548.1
360	45.000	.92500	969.00	.1000-02	.9000-03	.1000-02	.3590-04	.2975-04	.3590-04	.2200-01	.1680	539.0
360	45.000	.95000	973.00	.2000-03	.2000-03	.2000-03	.7330-05	.6075-05	.7330-05	.5000-02	.3400-01	538.5
360	45.000	.97500	978.00	.1250-02	.1000-02	.1200-02	.4131-04	.3424-04	.4131-04	.2600-01	.1930	538.5
360	75.000	.97500	977.00	.2700-02	.2300-02	.2700-02	.9458-04	.7838-04	.9458-04	.5900-01	.4410	539.2
360	85.000	.97500	976.00	.4800-02	.4000-02	.4800-02	.1651-03	.1376-03	.1651-03	.1040	.7740	539.4
360	180.00	.10000-01	59.000	.2798	.2302	.2798	.9686-02	.7969-02	.9686-02	.5823	42.80	564.6
360	180.00	.25000-01	60.000	.9210-01	.7620-01	.9210-01	.3189-02	.2638-02	.3189-02	1.981	14.23	544.5
360	180.00	.50000-01	61.000	.4280-01	.3550-01	.4280-01	.1483-02	.1229-02	.1483-02	.9310	5.943	538.0
360	180.00	.75000-01	62.000	.2180-01	.1810-01	.2180-01	.7550-03	.6263-03	.7550-03	.4760	3.042	535.5
360	180.00	.10000-00	63.000	.1370-01	.1140-01	.1370-01	.4758-03	.3947-03	.4758-03	.3000	1.976	534.9
360	180.00	.12500	64.000	.9200-02	.7600-02	.9200-02	.3172-03	.2633-03	.3172-03	.2000	1.402	534.1
360	180.00	.15000	65.000	.6900-02	.5700-02	.6900-02	.2384-03	.1975-03	.2384-03	.1510	1.054	533.9
360	180.00	.16000	66.000	.2930-01	.2430-01	.2930-01	.1016-02	.8423-03	.1016-02	.6390	3.576	536.1
360	180.00	.17000	67.000	.6250-01	.5170-01	.6250-01	.1790-02	.1790-02	.2162-02	1.348	7.516	542.3
360	180.00	.20000	69.000	.1790-01	.1480-01	.1790-01	.6185-03	.5131-03	.6185-03	.3900	2.423	535.6
360	180.00	.40100	72.000	.8700-02	.7200-02	.8700-02	.3004-03	.2490-03	.3004-03	.1880	1.605	538.4
360	180.00	.50000	73.000	.1320-01	.1110-01	.1320-01	.4620-03	.3828-03	.4620-03	.2890	2.459	540.1
360	180.00	.60100	74.000	.1160-01	.9600-02	.1150-01	.4002-03	.3315-03	.4002-03	.2500	2.056	541.2
360	180.00	.70100	75.000	.8800-02	.7300-02	.8800-02	.3049-03	.2526-03	.3049-03	.1910	1.521	540.1

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



DATE 25 AUG 76 AEDC VKF V41B-57A (OH-49B) COLLATION CHECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PARAMETRIC DATA

ALPHA = 20.01 BETA = .0000 ELEVTR = .5.00 SPOBRK = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
342	8.000	3.827	19.97	.0000	180.0	859.6	.8800-01	1324.	95.90	3.945	3840.	.7700-04
343	8.000	3.762	19.96	.0000	180.0	857.8	.8800-01	1337.	96.90	3.936	3859.	.7607-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
342	.7724-07	.4893-01	0.0175
343	.7802-07	.4897-01	.2096-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTADT DEG. R /SEC	TW DEG. R
342	.0000	.0000	1.0000	.9122	.7300	.7482	.4463-01	.7572-01	.3661-01	23.68	124.5	661.1
342	.0000	.5000-02	2.0000	.7520	.6025	.6176	.3680-01	.2948-01	.3022-01	19.63	129.2	658.1
342	.0000	.1000-01	3.0000	.5786	.4689	.5017	.2631-01	.2294-01	.2455-01	16.02	103.9	625.6
342	.0000	.2000-01	4.0000	.3141	.2590	.2892	.1537-01	.1268-01	.1415-01	9.580	52.72	567.9
342	.0000	.3000-01	5.0000	.2320	.1914	.2186	.1135-01	.9365-02	.1069-01	7.081	38.97	561.1
342	.0000	.4000-01	6.0000	.1860	.1537	.1779	.9103-02	.7523-02	.8704-02	5.739	31.69	570.0
342	.0000	.5000-01	7.0000	.1648	.1358	.1591	.8063-02	.6647-02	.7787-02	5.012	33.40	564.9
342	.0000	.6000-01	8.0000	.1614	.1332	.1570	.7895-02	.6518-02	.7694-02	4.948	31.17	566.2
342	.0000	.7000-01	9.0000	.1298	.1071	.1273	.6353-02	.5243-02	.6229-02	3.973	27.36	560.1
342	.0000	.8000-01	10.000	.1086	.8980-01	.1071	.5316-02	.4394-02	.5242-02	3.357	23.18	554.2
342	.0000	.9000-01	11.000	.9670-01	.8000-01	.9570-01	.4731-02	.3917-02	.4685-02	3.011	19.06	551.1
342	.0000	.1000+90	12.000	.8900-01	.7370-01	.8850-01	.4356-02	.3606-02	.4329-02	2.776	16.63	551.7
342	.0000	.12000	14.000	.7630-01	.6330-01	.7620-01	.3735-02	.3095-02	.3731-02	2.392	13.27	551.9
342	.0000	.13000	15.000	.7060-01	.5850-01	.7070-01	.3435-02	.2863-02	.3457-02	2.211	12.91	552.9
342	.0000	.14000	16.000	.6390-01	.5230-01	.6400-01	.3127-02	.2591-02	.3133-02	2.000	12.68	553.6
342	.0000	.16000	18.000	.6520-01	.5430-01	.6550-01	.3192-02	.2644-02	.3205-02	2.039	12.56	553.9
342	.0000	.17000	19.000	.6350-01	.5260-01	.6380-01	.3107-02	.2573-02	.3123-02	1.982	12.46	553.9
342	.0000	.18000	20.000	.6310-01	.5220-01	.6340-01	.3088-02	.2555-02	.3104-02	1.968	12.46	551.7
342	.0000	.19000	21.000	.5960-01	.4850-01	.5900-01	.2865-02	.2374-02	.2686-02	1.834	11.63	

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1830)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(19T) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TH DEG. R
342	.00000	.20000	22.000	.5970-01	.4860-01	.5920-01	.2873-02	.2379-02	.2897-02	1.833	11.62	553.3
342	.00000	.22500	23.000	.5380-01	.4460-01	.5440-01	.2635-02	.2183-02	.2660-02	1.685	10.68	552.1
342	.00000	.25000	801.00	.5190-01	.4300-01	.5260-01	.2541-02	.2105-02	.2573-02	1.625	10.30	552.0
342	.00000	.30000	802.00	.4680-01	.3880-01	.4740-01	.2291-02	.1899-02	.2320-02	1.465	9.293	551.9
342	.00000	.35000	803.00	.4820-01	.3990-01	.4880-01	.2359-02	.1954-02	.2389-02	1.504	9.523	554.2
342	.00000	.40000	804.00	.4550-01	.3760-01	.4600-01	.2224-02	.1842-02	.2252-02	1.419	9.250	553.8
342	.00000	.45000	805.00	.4100-01	.3390-01	.4150-01	.2004-02	.1659-02	.2029-02	1.278	8.581	554.1
342	.00000	.50000	806.00	.3730-01	.3090-01	.3780-01	.1825-02	.1510-02	.1847-02	1.161	8.042	555.0
342	.00000	.55000	807.00	.3430-01	.2840-01	.3470-01	.1678-02	.1389-02	.1699-02	1.065	7.861	556.8
342	.00000	.60000	808.00	.3170-01	.2620-01	.3210-01	.1549-02	.1282-02	.1559-02	.9840	7.262	556.4
342	.00000	.65000	809.00	.2740-01	.2270-01	.2780-01	.1342-02	.1111-02	.1359-02	.8510	6.275	557.8
342	.00000	.70000	810.00	.2740-01	.2270-01	.2780-01	.1343-02	.1111-02	.1360-02	.8500	6.478	559.0
342	.00000	.75000	811.00	.3400-01	.2810-01	.3440-01	.1653-02	.1375-02	.1684-02	1.050	7.733	560.2
342	.00000	.80000	812.00	.4400-01	.3640-01	.4450-01	.2153-02	.1779-02	.2180-02	1.357	9.991	561.2
342	.00000	.85000	813.00	.4920-01	.4060-01	.5030-01	.2405-02	.1989-02	.2461-02	1.516	11.54	561.6
342	.00000	.90000	814.00	.5160-01	.4270-01	.5290-01	.2524-02	.2087-02	.2586-02	1.597	11.39	559.0
342	.00000	.92500	815.00	.4330-01	.3580-01	.4450-01	.2119-02	.1753-02	.2176-02	1.344	11.02	557.1
342	.00000	.95000	816.00	.4650-01	.3840-01	.4780-01	.2274-02	.1881-02	.2341-02	1.441	11.80	558.0
342	.00000	.97500	817.00	.4890-01	.4040-01	.5040-01	.2393-02	.1978-02	.2468-02	1.512	12.38	559.6
342	.00000	1.0150	818.00	.3520-01	.2910-01	.3640-01	.1721-02	.1425-02	.1779-02	1.100	8.138	552.1
342	.00000	1.0300	819.00	.3670-01	.3040-01	.3800-01	.1797-02	.1489-02	.1858-02	1.152	8.532	550.2
342	.00000	1.0600	821.00	.3170-01	.2620-01	.3270-01	.1549-02	.1283-02	.1601-02	.9900	8.283	552.7
342	.00000	1.15000	89.000	.1640-01	.1360-01	.1640-01	.8026-03	.6669-03	.8026-03	.5220	3.149	540.9
342	.00000	.20000	91.000	.3920-01	.3250-01	.3920-01	.4629-03	.3846-03	.4629-03	1.240	7.670	545.2
342	.00000	.50000	90.000	.9500-02	.7800-02	.9500-02	.2467-02	.2040-02	.2498-02	1.558	12.30	560.1
342	.00000	.40000	823.00	.5040-01	.4170-01	.5110-01	.2467-02	.2040-02	.2498-02	1.558	12.30	560.1
342	.00000	.50000	824.00	.4580-01	.3780-01	.4640-01	.2241-02	.1852-02	.2269-02	1.413	11.15	561.0
342	.00000	.60000	825.00	.2990-01	.2480-01	.3030-01	.1455-02	.1212-02	.1484-02	.9260	8.193	559.4
342	.00000	.70000	826.00	.3830-01	.3170-01	.3880-01	.1876-02	.1551-02	.1900-02	1.183	8.711	561.0
342	.00000	.80000	827.00	.4080-01	.3370-01	.4140-01	.1998-02	.1651-02	.2024-02	1.259	9.270	561.5
342	.00000	.90000	828.00	.3770-01	.3120-01	.3860-01	.1843-02	.1524-02	.1869-02	1.167	9.214	558.7
342	.00000	.92500	971.00	.6160-01	.5090-01	.6160-01	.3015-02	.2491-02	.3015-02	1.896	13.95	562.6
342	.00000	.95000	975.00	.8190-01	.6770-01	.8190-01	.4005-02	.3311-02	.4005-02	2.527	18.61	560.6
342	.00000	.97500	973.00	.3200-01	.2660-01	.3200-01	.1568-02	.1302-02	.1568-02	1.016	7.547	543.6
342	.00000	93.000	93.000	.5620-01	.4660-01	.5620-01	.2751-02	.2282-02	.2751-02	1.771	10.93	548.1
342	.00000	970.00	970.00	.2880-01	.2390-01	.2880-01	.1409-02	.1168-02	.1409-02	.9040	6.656	549.8
342	.00000	974.00	974.00	.3230-01	.2580-01	.3230-01	.1582-02	.1313-02	.1582-02	1.022	7.585	545.5
342	.00000	.97500	979.00	.1580-01	.1310-01	.1580-01	.7738-03	.6432-03	.7738-03	.5040	3.753	539.8
342	.00000	.83100+10	831.00	.7260-01	.6000-01	.7350-01	.3552-02	.2936-02	.3597-02	2.241	15.47	560.8
342	.00000	832.00	832.00	.6010-01	.4970-01	.6090-01	.2942-02	.2431-02	.2980-02	1.850	13.17	562.8
342	.00000	833.00	833.00	.5160-01	.4260-01	.5230-01	.2525-02	.2085-02	.2557-02	1.587	10.61	563.1
342	.00000	834.00	834.00	.4170-01	.3440-01	.4220-01	.2039-02	.1682-02	.2065-02	1.275	9.682	566.4
342	.00000	835.00	835.00	.3450-01	.2850-01	.3490-01	.1686-02	.1393-02	.1707-02	1.062	7.566	561.6

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTHOT DEG. R /SEC	TW DEG. R
342	32.000	.90000	836.00	.2800-01	.2310-01	.2870-01	.1368-02	.1132-02	.1402-02	.8680	6.405	55.1
342	32.000	.95000	837.00	.4200-01	.3470-01	.4320-01	.2055-02	.1699-02	.2115-02	1.300	9.911	559.1
342	32.000	.97500	838.00	.4840-01	.4000-01	.5000-01	.2370-02	.1959-02	.2446-02	1.493	11.77	561.9
342	32.000	1.0150	839.00	.4130-01	.3420-01	.4130-01	.2023-02	.1673-02	.2019-02	1.282	10.32	557.5
342	32.000	1.0300	840.00	.4880-01	.4030-01	.4870-01	.2386-02	.1974-02	.2381-02	1.514	11.75	557.2
342	32.000	1.0450	841.00	.5580-01	.4610-01	.5570-01	.2729-02	.2257-02	.2724-02	1.726	13.16	559.1
342	45.000	.92500	959.00	.2600-02	.2200-02	.2600-02	.1267-03	.1054-03	.1267-03	.8300-01	.6170	538.1
342	45.000	.95000	973.00	.4200-02	.3500-02	.4200-02	.2056-03	.1709-03	.2056-03	.1340	.9990	538.9
342	45.000	.97500	978.00	.6800-02	.5630-02	.6800-02	.3305-03	.2747-03	.3305-03	.2150	1.603	539.8
342	75.000	.97500	977.00	.6400-02	.5300-02	.6400-02	.3142-03	.2612-03	.3142-03	.2050	1.523	540.2
342	85.000	.97500	976.00	.6920-02	.5700-02	.6900-02	.3375-03	.2805-03	.3375-03	.2200	1.635	540.6
342	180.00	.10000-01	59.000	.2795	.2293	.2795	.1367-01	.1122-01	.1367-01	.8281	60.22	586.0
342	180.00	.25000-01	60.000	.8910-01	.7380-01	.8910-01	.4359-02	.3610-02	.4359-02	2.784	19.92	552.9
342	180.00	.50000-01	61.000	.4090-01	.3400-01	.4090-01	.2002-02	.1652-02	.2002-02	1.296	8.248	544.3
342	180.00	.75000-01	62.000	.2020-01	.1680-01	.2020-01	.9903-03	.8228-03	.9903-03	.6440	4.107	541.0
342	180.00	.10000+00	63.000	.1320-01	.1100-01	.1320-01	.6478-03	.5384-03	.6478-03	.4220	2.772	539.8
342	180.00	.12500	64.000	.7200-02	.6000-02	.7200-02	.3540-03	.2943-03	.3540-03	.2310	1.611	539.4
342	180.00	.15000	65.000	.7400-02	.6200-02	.7400-02	.3639-03	.3026-03	.3639-03	.2370	1.658	539.0
342	180.00	.16000	66.000	.3040-01	.2520-01	.3040-01	.1488-02	.1235-02	.1488-02	.9630	5.361	544.7
342	180.00	.17000	67.000	.6580-01	.5450-01	.6580-01	.3219-02	.2668-02	.3219-02	2.062	11.45	550.9
342	180.00	.20000	69.000	.1640-01	.1370-01	.1640-01	.8047-03	.6685-03	.8047-03	.5230	3.242	541.4
342	180.00	.40100	72.000	.1410-01	.1180-01	.1410-01	.6923-03	.5750-03	.6923-03	.4490	3.816	542.6
342	180.00	.50000	73.000	.1520-01	.1260-01	.1520-01	.7442-03	.6182-03	.7442-03	.4830	4.104	542.4
342	180.00	.60100	74.000	.1400-01	.1170-01	.1400-01	.6864-03	.5701-03	.6864-03	.4450	3.661	542.6
342	180.00	.70100	75.000	.8100-02	.6700-02	.8100-02	.3943-03	.3277-03	.3943-03	.2570	2.047	540.5

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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## FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1831)

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 15.00 SPDBRK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
362	7.980	1.983	30.03	.0000	180.0	428.7	4500-01	1297.	94.40	1.990	3799.	.3967-04
363	7.980	1.970	30.08	.0000	180.0	428.8	4500-01	1302.	94.80	1.990	3808.	.3950-04

RUN NUMBER	MU	HREF BTU/ R	ST FR R =
362	LB-SEC /FT2	FT2SEC	0.0175
362	.7601-07	.3463-01	.2894-01
363	.7634-07	.3466-01	.2901-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(970) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	I(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TM DEG. R
362	.00000	.00000	1.0000	.7769	.6309	.6641	.2690-01	.2185-01	.2300-01	15.08	81.45	606.4
362	.00000	.50000-02	2.0000	.7516	.6087	.6123	.2603-01	.2108-01	.2120-01	14.37	96.58	615.0
362	.00000	.10000-01	3.0000	.6426	.5230	.5412	.2225-01	.1811-01	.1874-01	12.62	82.88	599.8
362	.00000	.20000-01	4.0000	.3994	.3271	.3517	.1380-01	.1133-01	.1218-01	8.212	45.11	571.9
362	.00000	.30000-01	5.0000	.2850	.2344	.2570	.9867-02	.8118-02	.8901-02	5.938	32.72	565.4
362	.00000	.40000-01	6.0000	.2436	.2006	.2228	.8434-02	.6948-02	.7715-02	5.113	28.23	560.9
362	.00000	.50000-01	7.0000	.2263	.1860	.2089	.7837-02	.6441-02	.7234-02	4.688	31.26	569.0
362	.00000	.60000-01	8.0000	.2246	.1848	.2030	.7778-02	.6401-02	.7237-02	4.530	29.53	564.5
362	.00000	.70000-01	9.0000	.1868	.1553	.1769	.6538-02	.5378-02	.6127-02	3.530	27.06	565.9
362	.00000	.80000-01	10.000	.1525	.1256	.1438	.5222-02	.4351-02	.4981-02	3.201	22.09	561.1
362	.00000	.90000-01	11.000	.1463	.1207	.1386	.5067-02	.4179-02	.4799-02	3.093	19.56	556.8
362	.00000	.10000+00	12.000	.1355	.1117	.1288	.4691-02	.3870-02	.4460-02	2.867	17.16	556.0
362	.00000	.12000	14.000	.1185	.9780-01	.1133	.4102-02	.3387-02	.3922-02	2.518	13.96	553.3
362	.00000	.13000	15.000	.1122	.9270-01	.1075	.3887-02	.3208-02	.3723-02	2.384	13.91	553.8
362	.00000	.14000	16.000	.1034	.8540-01	.3920-01	.3581-02	.2956-02	.3434-02	2.196	13.91	553.9
362	.00000	.16000	18.000	.1091	.9010-01	.1049	.3779-02	.3119-02	.3632-02	2.315	14.25	554.6
362	.00000	.17000	19.000	.1072	.8850-01	.1032	.3713-02	.3084-02	.3573-02	2.272	14.38	555.3
362	.00000	.18000	20.000	.1069	.8820-01	.1029	.3700-02	.3053-02	.3564-02	2.264	14.33	555.2
362	.00000	.19000	21.000	.1054	.8700-01	.1016	.3648-02	.3012-02	.3519-02	2.241	14.20	552.8

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1831)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(190) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
362	.00000	.20000	22.000	.1016	.8390-01	.9810-01	.3518-02	.2904-02	.3398-02	2.156	13.65	554.4
362	.00000	.22500	23.000	.9220-01	.7610-01	.8930-01	.3193-02	.2637-02	.3092-02	1.962	12.44	552.6
362	.00000	.25000	801.00	.9130-01	.7540-01	.8850-01	.3161-02	.2610-02	.3066-02	1.942	12.31	552.7
362	.00000	.30000	802.00	.8120-01	.6700-01	.7880-01	.2812-02	.2322-02	.2728-02	1.727	10.94	553.1
362	.00000	.35000	803.00	.8180-01	.6750-01	.7930-01	.2832-02	.2333-02	.2746-02	1.730	10.95	556.1
362	.00000	.40000	804.00	.8120-01	.6700-01	.7870-01	.2812-02	.2318-02	.2727-02	1.714	11.16	557.5
362	.00000	.45000	805.00	.7230-01	.5950-01	.7010-01	.2502-02	.2062-02	.2426-02	1.520	10.18	559.6
362	.00000	.50000	806.00	.6760-01	.5570-01	.6560-01	.2342-02	.1930-02	.2271-02	1.421	9.812	560.4
362	.00000	.55000	807.00	.6440-01	.5300-01	.6250-01	.2230-02	.1836-02	.2163-02	1.348	9.915	562.8
362	.00000	.60000	808.00	.6000-01	.4940-01	.5820-01	.2077-02	.1710-02	.2014-02	1.255	9.228	563.2
362	.00000	.65000	809.00	.5310-01	.4370-01	.5150-01	.1870-02	.1514-02	.1784-02	1.107	8.134	565.3
362	.00000	.70000	810.00	.5400-01	.4440-01	.5230-01	.1889-02	.1538-02	.1812-02	1.124	8.543	565.8
362	.00000	.75000	811.00	.5470-01	.4500-01	.5300-01	.1893-02	.1557-02	.1835-02	1.138	8.359	565.8
362	.00000	.80000	812.00	.6240-01	.5130-01	.6050-01	.2160-02	.1777-02	.2094-02	1.300	9.547	565.5
362	.00000	.85000	813.00	.6310-01	.5190-01	.6180-01	.2183-02	.1797-02	.2141-02	1.315	9.995	565.0
362	.00000	.90000	814.00	.6130-01	.5050-01	.6030-01	.2123-02	.1749-02	.2086-02	1.287	9.169	561.1
362	.00000	.92500	815.00	.4900-01	.4040-01	.5830-01	.697-02	.1399-02	.1673-02	1.033	8.459	558.7
362	.00000	.95000	816.00	.4770-01	.3930-01	.4710-01	.651-02	.1361-02	.1631-02	1.005	8.229	558.7
362	.00000	.97500	817.00	.4590-01	.3780-01	.4540-01	.588-02	.1308-02	.1573-02	.9630	7.877	560.9
362	.00000	1.0150	818.00	.3100-01	.2550-01	.3080-01	.1074-02	.8873-03	.1067-02	.6630	4.911	549.5
362	.00000	1.0300	819.00	.3230-01	.2670-01	.3210-01	.118-02	.9248-03	.1111-02	.6930	5.135	547.7
362	.00000	1.0600	821.00	.2640-01	.2180-01	.2620-01	.9146-03	.7564-03	.9087-03	.5670	4.762	546.9
362	.00000	1.5000	89.000	.7700-02	.6400-02	.7700-02	.2673-03	.2216-03	.2673-03	.1660	1.016	538.0
362	.00000	1.5000	91.000	.1790-01	.1490-01	.1790-01	.6203-03	.5147-03	.6203-03	.3920	2.437	535.2
362	.00000	2.0000	90.000	.1120-01	.9300-02	.1120-01	.3891-03	.3229-03	.3891-03	.2460	1.488	534.8
362	.00000	2.0000	92.000	.8240-01	.6780-01	.7590-01	.2673-02	.2349-02	.2766-02	1.723	13.58	563.2
362	.00000	2.0000	824.00	.7600-01	.6250-01	.7370-01	.2633-02	.2165-02	.2552-02	1.581	12.44	566.7
362	.00000	2.5000	825.00	.5150-01	.4240-01	.5000-01	.1784-02	.1467-02	.1730-02	1.071	9.440	568.7
362	.00000	2.5000	826.00	.6170-01	.5070-01	.5980-01	.2137-02	.1756-02	.2071-02	1.280	9.387	568.3
362	.00000	2.5000	827.00	.6150-01	.5060-01	.5960-01	.2129-02	.1751-02	.2064-02	1.280	9.397	566.0
362	.00000	2.5000	828.00	.5390-01	.4440-01	.5300-01	.1856-02	.1537-02	.1834-02	1.130	8.915	561.5
362	.00000	2.5000	971.00	.1015	.8350-01	.1015	.2516-02	.2990-02	.3516-02	2.106	15.45	568.2
362	.00000	2.5000	975.00	.1106	.9110-01	.1106	.3831-02	.3156-02	.3831-02	2.323	17.11	560.8
362	.00000	2.5000	980.00	.4290-01	.3560-01	.4290-01	.1487-02	.1232-02	.1487-02	.9330	6.945	539.5
362	.00000	2.5000	93.000	.1180-01	.9800-02	.1180-01	.4074-03	.3381-03	.4074-03	.2580	1.602	534.8
362	.00000	2.5000	970.00	.6770-01	.5580-01	.6770-01	.2343-02	.1931-02	.2343-02	1.425	10.51	558.7
362	.00000	2.5000	974.00	.4780-01	.3960-01	.4780-01	.1656-02	.1370-02	.1656-02	1.029	7.638	545.5
362	.00000	2.5000	979.00	.2200-01	.1830-01	.2200-01	.7629-03	.6333-03	.7629-03	.4830	3.608	533.7
362	.00000	2.5000	83100.10	.1082	.8910-01	.1049	.3746-02	.3086-02	.3633-02	2.270	15.67	561.1
362	.00000	2.5000	832.00	.8840-01	.7270-01	.8770-01	.3061-02	.2517-02	.2967-02	1.839	13.07	566.3
362	.00000	2.5000	833.00	.7660-01	.6300-01	.7430-01	.2654-02	.2181-02	.2572-02	1.588	10.59	568.6
362	.00000	2.5000	834.00	.4990-01	.4100-01	.4840-01	.1728-02	.1419-02	.1675-02	1.031	7.813	570.6
362	.00000	2.5000	835.00	.5590-01	.4600-01	.5420-01	.1936-02	.1593-02	.1877-02	1.165	8.282	565.5

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1831)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAK)	H(19T) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(17A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
362	32.000	.90000	836.00	.5080-01	.4190-01	.5000-01	.1760-02	.1450-02	.1730-02	1.065	7.849	561.4
362	32.000	.95000	837.00	.5860-01	.4830-01	.5790-01	.2030-02	.1673-02	.2005-02	1.234	9.407	559.2
362	32.000	.97500	838.00	.7370-01	.6080-01	.7300-01	.2553-02	.2104-02	.2529-02	1.552	12.26	559.1
362	32.000	1.0150	839.00	.6490-01	.5350-01	.6200-01	.2246-02	.1854-02	.2146-02	1.377	11.09	554.3
362	32.000	1.0300	840.00	.7260-01	.5990-01	.6940-01	.2514-02	.2076-02	.2402-02	1.545	12.02	552.7
362	32.000	1.0450	841.00	.7770-01	.6420-01	.7420-01	.2691-02	.2222-02	.2570-02	1.653	12.64	552.8
362	45.000	.92500	922.00	.5700-02	.4600-02	.5700-02	.1998-03	.1648-03	.1939-03	.1250	.9310	538.5
362	45.000	.95000	923.00	.9000-03	.6000-03	.9000-03	.3187-04	.2643-04	.3187-04	.2000-01	.1500	537.0
362	45.000	.97500	924.00	.1200-02	.1000-02	.1200-02	.4261-04	.3535-04	.4251-04	.2700-01	.2010	536.0
362	75.000	.97500	927.00	.9000-03	.6000-03	.9000-03	.3288-04	.2729-04	.3288-04	.2100-01	.1550	536.1
362	85.000	.97500	926.00	.2700-02	.2200-02	.2700-02	.9260-04	.7681-04	.9260-04	.5600-01	.4350	536.3
362	180.00	.10000-01	59.000	.1782	.1458	.1782	.6170-02	.5093-02	.6170-02	3.745	27.58	560.2
362	180.00	.25000-01	60.000	.5000-01	.4130-01	.5000-01	.1731-02	.1431-02	.1731-02	1.072	7.685	548.1
362	180.00	.50000-01	61.000	.2180-01	.1810-01	.2180-01	.7558-03	.6258-03	.7558-03	.4720	3.005	542.8
362	180.00	.75000-01	62.000	.1270-01	.1020-01	.1270-01	.4246-03	.3518-03	.4246-03	.2660	1.698	541.0
362	180.00	.10000-00	63.000	.9300-02	.7700-02	.9300-02	.3237-03	.2693-03	.3237-03	.2030	1.337	533.5
362	180.00	.12500	64.000	.1100-01	.9100-02	.1100-01	.3797-03	.3148-03	.3797-03	.2390	1.659	537.8
362	180.00	.15000	65.000	.1970-01	.1630-01	.1970-01	.6807-03	.5644-03	.6807-03	.4290	2.994	537.4
362	180.00	.16000	65.000	.6090-01	.5040-01	.6090-01	.2108-02	.1746-02	.2108-02	1.317	7.339	542.6
362	180.00	.17000	67.000	.9140-01	.7570-01	.9140-01	.3165-02	.2620-02	.3165-02	1.974	11.00	543.3
362	180.00	.20000	69.000	.1560-01	.1300-01	.1560-01	.5414-03	.4492-03	.5414-03	.3420	2.127	535.2
362	180.00	.40100	72.000	.9800-02	.8200-02	.9800-02	.3409-03	.2828-03	.3409-03	.2150	1.832	536.7
362	180.00	.50000	73.000	.8100-02	.6700-02	.8100-02	.2796-03	.2318-03	.2796-03	.1760	1.499	537.6
362	180.00	.60100	74.000	.6400-02	.5300-02	.6400-02	.2226-03	.1846-03	.2226-03	.1400	1.156	537.5
362	180.00	.70100	75.000	.6500-02	.5400-02	.6500-02	.2252-03	.1868-03	.2252-03	.1420	1.134	536.8

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ORIGINAL PAGE IS POOR



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AEDC VKF V41B-57A (OH-49B) COLLATION DECY

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1831)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 15.00 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEC.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
356	7.990	2.966	30.05	.0000	180.0	673.8	.7000-01	1337.	97.10	3.109	3858.	.6011-04
357	7.990	2.953	30.08	.0000	180.0	673.3	.7000-01	1340.	97.30	3.107	3863.	.5992-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R	ST FR R =
356	.7819-07	.4352-01		0.9175
357	.7838-07	.4352-01		.2358-01 .2362-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=C.S	H/HREF R=1.0	H/HREF (TAN)	H1910 BTU/ R FT2SEC	H101 BTU/ R FT2SEC	H1TAN BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
356	.00000	.00000	1.0000	.7739	.6299	.6628	.3368-01	.2741-01	.2884-01	19.70	105.7	618.5
356	.00000	.50000-02	2.0000	.7450	.6041	.6076	.3242-01	.2629-01	.2644-01	18.58	123.9	630.3
356	.00000	.10000-01	3.0000	.5134	.5006	.5178	.2669-01	.2173-01	.2253-01	15.84	103.5	610.0
356	.00000	.20000-01	4.0000	.3971	.3276	.3517	.1728-01	.1426-01	.1530-01	10.90	59.82	572.9
356	.00000	.30000-01	5.0000	.2949	.2439	.2668	.1283-01	.1061-01	.1161-01	8.211	45.29	563.5
356	.00000	.40000-01	6.0000	.2505	.2075	.2297	.1090-01	.9029-02	.9933-02	7.031	38.88	558.4
356	.00000	.50000-01	7.0000	.2269	.1874	.2039	.9915-02	.8155-02	.9136-02	6.263	41.74	569.3
356	.00000	.60000-01	8.0000	.2256	.1856	.2103	.9915-02	.8118-02	.9151-02	6.271	39.51	564.6
356	.00000	.70000-01	9.0000	.1914	.1582	.1797	.8330-02	.6624-02	.7819-02	5.297	36.44	567.6
356	.00000	.80000-01	10.000	.1562	.1292	.1475	.6756-02	.5624-02	.6417-02	4.360	30.08	551.8
356	.00000	.90000-01	11.000	.1451	.1232	.1376	.6313-02	.5232-02	.5987-02	4.084	25.83	556.5
356	.00000	.10000+00	12.000	.1333	.1105	.1269	.5901-02	.4808-02	.5523-02	3.755	22.47	556.1
356	.00000	.12000	14.000	.1238	.1027	.1185	.5393-02	.4471-02	.5158-02	3.512	19.49	551.6
356	.00000	.13000	15.000	.1133	.9430-01	.1087	.4932-02	.4032-02	.4723-02	3.210	18.74	552.5
356	.00000	.14000	16.000	.1025	.8340-01	.9650-01	.4375-02	.3623-02	.4200-02	2.844	18.02	553.4
356	.00000	.15000	18.000	.1074	.8300-01	.1033	.4675-02	.3975-02	.4497-02	3.029	18.63	555.6
356	.00000	.16000	19.000	.1055	.8740-01	.1016	.4589-02	.3903-02	.4420-02	2.968	18.77	556.7
356	.00000	.17000	20.000	.1021	.8460-01	.9850-01	.4445-02	.3682-02	.4284-02	2.870	18.14	557.6
356	.00000	.18000	21.000	.1017	.8430-01	.9810-01	.4424-02	.3663-02	.4270-02	2.871	18.18	554.3

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AFDC VKF V41B-57A (04-498) COLLATION DECK

04-498 (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H19T0 BTU/ R FI2SEC	H1T0 BTU/ R FI2SEC	H1TAM BTU/ R FI2SEC	QDOT BTU/ R FI2SEC	DTWOT DEG. R /SFC	TW DEG. R
356	.00000	.20000	22.000	.1001	.8300-01	.9680-01	.4358-02	.3611-02	.4211-02	2.817	17.61	557.0
356	.00000	.22500	23.000	.9500-01	.7880-01	.9210-01	.4136-02	.3428-02	.4008-02	2.676	16.93	556.3
356	.00000	.25000	801.00	.9060-01	.7510-01	.8750-01	.3913-02	.3267-02	.3827-02	2.548	16.11	557.2
356	.00000	.30000	802.00	.8230-01	.6810-01	.7950-01	.3582-02	.2965-02	.3476-02	2.304	14.55	560.1
356	.00000	.35000	803.00	.8300-01	.6860-01	.8050-01	.3613-02	.2987-02	.3505-02	2.306	14.53	565.0
356	.00000	.40000	804.00	.8340-01	.6890-01	.8090-01	.3629-02	.2999-02	.3521-02	2.311	14.97	566.7
356	.00000	.45000	805.00	.7800-01	.6440-01	.7550-01	.3393-02	.2801-02	.3291-02	2.147	14.30	570.5
356	.00000	.50000	806.00	.6930-01	.5720-01	.6720-01	.3017-02	.2490-02	.2926-02	1.905	13.08	572.0
356	.00000	.55000	807.00	.6730-01	.5540-01	.6520-01	.2928-02	.2413-02	.2839-02	1.34	13.40	576.8
356	.00000	.60000	808.00	.6460-01	.5320-01	.6270-01	.2812-02	.2317-02	.2727-02	1.758	12.84	578.2
356	.00000	.65000	809.00	.6510-01	.5350-01	.6310-01	.2832-02	.2330-02	.2746-02	1.758	12.80	582.8
356	.00000	.70000	810.00	.6660-01	.5540-01	.6550-01	.2987-02	.2456-02	.2895-02	1.846	13.89	585.3
356	.00000	.75000	811.00	.8170-01	.6710-01	.7920-01	.2921-02	.2456-02	.3445-02	2.190	15.92	587.1
356	.00000	.80000	812.00	.1022	.8400-01	.9900-01	.4447-02	.3655-02	.4310-02	2.744	19.95	586.4
356	.00000	.85000	813.00	.1098	.9300-01	.1076	.4780-02	.3928-02	.4685-02	2.946	22.15	587.1
356	.00000	.90000	814.00	.1156	.9510-01	.1136	.5031-02	.4141-02	.4943-02	3.127	22.05	581.9
356	.00000	.95000	815.00	.9950-01	.8200-01	.9810-01	.4332-02	.3568-02	.4268-02	2.705	21.93	578.9
356	.00000	.92500	816.00	.1036	.8520-01	.1023	.4508-02	.3709-02	.4453-02	2.796	22.62	583.2
356	.00000	.97500	817.00	.1094	.8980-01	.1083	.4762-02	.3910-02	.4715-02	2.921	23.55	590.0
356	.00000	1.0150	818.00	.8510-01	.7010-01	.8450-01	.3703-02	.3043-02	.3679-02	2.307	16.83	580.4
356	.00000	1.0300	819.00	.8780-01	.7240-01	.8120-01	.3820-02	.3148-02	.3795-02	2.395	17.50	576.5
356	.00000	1.0600	821.00	.7780-01	.6410-01	.7730-01	.3387-02	.2790-02	.3365-02	2.116	17.48	578.8
356	.00000	.15000	83.000	.6300-02	.5200-02	.6300-02	.2729-03	.2276-03	.2729-03	1.830	1.109	532.4
356	.00000	.20000	91.000	.2140-01	.1780-01	.2140-01	.9301-03	.7755-03	.9301-03	.6240	3.882	532.8
356	.00000	.50000	90.000	.8600-02	.7200-02	.8600-02	.3735-03	.3114-03	.3735-03	.2510	1.519	531.8
356	.00000	.40000	823.00	.8390-01	.6920-01	.8130-01	.3649-02	.3011-02	.3539-02	2.300	18.04	573.1
356	.00000	.50000	824.00	.7810-01	.6430-01	.7570-01	.3398-02	.2797-02	.3294-02	2.116	16.53	580.7
356	.00000	.60000	825.00	.5460-01	.4490-01	.5590-01	.2377-02	.1955-02	.2304-02	1.475	12.89	582.8
356	.00000	.70000	826.00	.7120-01	.5850-01	.6900-01	.3059-02	.2546-02	.3004-02	1.907	13.86	588.0
356	.00000	.80000	827.00	.8820-01	.7250-01	.8550-01	.3840-02	.3155-02	.3721-02	2.367	17.20	587.0
356	.00000	.90000	828.00	.9160-01	.7540-01	.9000-01	.3885-02	.3279-02	.3915-02	2.476	19.33	582.1
356	.00000	.92500	971.00	.1153	.9470-01	.1153	.5017-02	.4121-02	.5017-02	3.087	22.43	588.0
356	.00000	.95000	975.00	.1172	.9670-01	.1172	.5100-02	.4206-02	.5100-02	3.208	23.47	574.3
356	.00000	.97500	980.00	.4640-01	.4020-01	.4840-01	.2104-02	.1747-02	.2104-02	1.378	10.21	548.6
356	.00000	.24000	93.000	.1250-01	.1040-01	.1250-01	.5450-03	.4545-03	.5450-03	.3660	2.280	531.6
356	.00000	.30000	970.00	.1002	.8250-01	.1002	.4352-02	.3591-02	.4352-02	2.716	19.80	580.8
356	.00000	.30000	974.00	.5280-01	.4380-01	.5280-01	.2297-02	.1905-02	.2297-02	1.491	11.01	554.4
356	.00000	.30000	979.00	.1620-01	.1350-01	.1620-01	.7042-03	.5859-03	.7042-03	.4660	3.467	541.3
356	.00000	.40000	831.00+10	.1058	.8740-01	.1026	.4603-02	.3802-02	.4465-02	2.920	20.08	569.0
356	.00000	.50000	832.00	.8930-01	.7360-01	.8660-01	.3885-02	.3201-02	.3767-02	2.430	17.17	577.9
356	.00000	.60000	833.00	.7850-01	.6450-01	.7610-01	.3414-02	.2808-02	.3310-02	2.113	13.98	584.6
356	.00000	.70000	834.00	.7030-01	.5770-01	.6810-01	.3058-02	.2510-02	.2964-02	1.869	14.01	592.4
356	.00000	.80000	835.00	.7840-01	.6440-01	.7600-01	.3411-02	.2802-02	.3306-02	2.100	14.76	587.8

(RV1831)

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	OTMOT DEG. R /SEC	TM DEG. R
356	32.000	.90000	836.00	.9060-01	.7460-01	.8910-01	.3945-02	.3248-02	.3876-02	2.459	17.93	580.0
356	32.000	.95000	837.00	.1096	.9030-01	.1083	.4770-02	.3928-02	.4712-02	2.977	22.46	579.4
356	32.000	.97500	838.00	.1240	.1019	.1228	.5396-02	.4435-02	.5344-02	3.327	25.91	586.8
356	32.000	1.0150	839.00	.1065	.8920-01	.1035	.4721-02	.3883-02	.4505-02	2.924	23.22	584.0
356	32.000	1.0300	840.00	.1134	.9340-01	.1083	.4937-02	.4065-02	.4713-02	3.077	23.63	580.1
356	32.000	1.0450	841.00	.1192	.9810-01	.1137	.5185-02	.4269-02	.4949-02	3.231	24.38	580.2
356	45.000	.92500	969.00	.7160-02	.5900-02	.7100-02	.3095-03	.2574-03	.3095-03	2.040	1.514	544.8
356	45.000	.95000	973.00	.1600-02	.1300-02	.1600-02	.6839-04	.5688-04	.6839-04	4.500-01	.3360	542.2
356	45.000	.97500	978.00	.1800-02	.1500-02	.1800-02	.7704-04	.6411-04	.7704-04	5.100-01	.3800	540.5
356	75.000	.97500	977.00	.1200-02	.1000-02	.1200-02	.5346-04	.4449-04	.5346-04	3.500-01	.2640	540.1
356	85.000	.97500	976.00	.2500-02	.2100-02	.2500-02	.1107-03	.9212-04	.1107-03	7.400-01	.5470	578.9
356	180.00	.10000-01	59.000	.1752	.1452	.1752	.7626-02	.6321-02	.7626-02	4.938	36.45	555.9
356	180.00	.25000-01	60.000	.4890-01	.4170-01	.4890-01	.2130-02	.1773-02	.2130-02	1.415	10.19	539.1
356	180.00	.50000-01	61.000	.2110-01	.1760-01	.2110-01	.9185-03	.7653-03	.9185-03	6.130	3.922	535.5
356	180.00	.75000-01	62.000	.1080-01	.9000-02	.1080-01	.4695-03	.3913-03	.4695-03	3.140	2.010	534.2
356	180.00	.10000+00	63.000	.9200-02	.7600-02	.9200-02	.3585-03	.3321-03	.3585-03	2.670	1.755	534.4
356	180.00	.12500	64.000	.1260-01	.1060-01	.1260-01	.5558-03	.4631-03	.5558-03	3.720	2.600	534.7
356	180.00	.15000	65.000	.2260-01	.1880-01	.2260-01	.9830-03	.8192-03	.9830-03	6.570	4.596	534.9
356	180.00	.16000	66.000	.7460-01	.6210-01	.7460-01	.3247-02	.2701-02	.3247-02	2.146	11.96	542.5
356	180.00	.17000	67.000	.9360-01	.7780-01	.9360-01	.4073-02	.3387-02	.4073-02	2.687	14.97	543.7
356	180.00	.20000	69.000	.1600-01	.1330-01	.1600-01	.6962-03	.5805-03	.6962-03	4.670	2.905	533.0
356	180.00	.40100	72.000	.1080-01	.9000-02	.1080-01	.4684-03	.3903-03	.4684-03	3.130	2.671	535.0
356	180.00	.50000	73.000	.9400-02	.7900-02	.9400-02	.4111-03	.3426-03	.4111-03	2.750	2.343	535.4
356	180.00	.60100	74.000	.6700-02	.5500-02	.6700-02	.2897-03	.2114-03	.2897-03	1.930	1.597	535.7
356	180.00	.70100	75.000	.6600-02	.5500-02	.6600-02	.2890-03	.2409-03	.2890-03	1.930	1.547	534.5

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## FUSELAGE

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1831)

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 15.00 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	P0 PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
344	8.000	3.767	30.05	.0000	180.0	860.6	.8800-01	1339.	97.00	3.949	3861.	.7622-04
345	8.000	3.791	30.09	.0000	180.0	856.9	.8800-01	1330.	96.40	3.932	3848.	.7643-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
344	.7812-07	.4906-01	0.0175
345	.7757-07	.4889-01	.2094-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
344	.00000	.00000	1.0000	.7705	.6241	.6574	.3780-01	.3062-01	.3225-01	21.57	114.9	634.4
344	.00000	.50000-02	2.0000	.7489	.6040	.6076	.3674-01	.2963-01	.2981-01	20.50	135.7	647.1
344	.00000	.10000-01	3.0000	.6084	.4940	.5113	.2984-01	.2424-01	.2508-01	17.27	111.9	626.6
344	.00000	.20000-01	4.0000	.3752	.3092	.3320	.1840-01	.1517-01	.1629-01	11.56	63.31	577.2
344	.00000	.30000-01	5.0000	.2937	.2422	.2652	.1441-01	.1188-01	.1301-01	9.070	49.73	575.6
344	.00000	.40000-01	6.0000	.2446	.2021	.2241	.1200-01	.0913-02	.1099-01	7.628	41.93	569.5
344	.00000	.50000-01	7.0000	.2264	.1863	.2091	.1111-01	.0941-02	.1026-01	6.922	45.85	581.9
344	.00000	.60000-01	8.0000	.2277	.1877	.2120	.1117-01	.0209-02	.1040-01	7.024	43.99	576.3
344	.00000	.70000-01	9.0000	.1946	.1603	.1825	.0548-02	.7865-02	.8951-02	5.975	40.87	579.3
344	.00000	.80000-01	10.000	.1553	.1282	.1465	.7620-02	.6289-02	.7189-02	4.820	33.08	572.5
344	.00000	.90000-01	11.000	.1424	.1177	.1349	.6984-02	.5773-02	.6618-02	4.458	28.05	566.8
344	.00000	.10000*00	12.000	.1339	.1107	.1274	.6570-02	.5432-02	.6250-02	4.199	25.00	566.0
344	.00000	.12000	14.000	.1232	.1020	.1179	.6045-02	.5005-02	.5783-02	3.894	21.51	560.9
344	.00000	.13000	15.000	.1135	.9390-01	.1088	.5568-02	.4609-02	.5336-02	3.581	20.80	562.0
344	.00000	.14000	16.000	.1023	.8470-01	.9820-01	.5020-02	.4154-02	.4816-01	3.225	20.33	562.8
344	.00000	.16000	18.000	.1069	.8840-01	.1027	.5243-02	.4336-02	.5040-02	3.357	20.56	564.9
344	.00000	.17000	19.000	.1046	.8550-01	.1007	.5132-02	.4243-02	.4940-02	3.279	20.64	566.1
344	.00000	.18000	20.000	.1052	.8690-01	.1013	.5159-02	.4265-02	.4970-02	3.295	20.74	566.4
344	.00000	.19000	21.000	.1029	.8520-01	.9930-01	.5050-02	.4179-02	.4872-02	3.245	20.46	562.6

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B31)

RUN NUMBER	THETA	X/L	1/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QOOT BTU/ R FT2SEC	DYMDT DEG. R /SEC	TM DEG. R
344	.00000	.20000	22.003	.9960-01	.8240-01	.9620-01	.4886-02	.4040-02	.4720-02	3.124	19.66	565.9
344	.00000	.22500	23.000	.9300-01	.7690-01	.9010-01	.4562-02	.3774-02	.4419-02	2.925	18.43	564.0
344	.00000	.25000	801.00	.9200-01	.7460-01	.8750-01	.4425-02	.3660-02	.4294-02	2.836	17.87	564.4
344	.00000	.30000	802.00	.8390-01	.6940-01	.8140-01	.4114-02	.3402-02	.3991-02	2.634	16.59	564.9
344	.00000	.35000	803.00	.8720-01	.7200-01	.8460-01	.4277-02	.3533-02	.4149-02	2.720	17.09	569.3
344	.00000	.40000	804.00	.8570-01	.7080-01	.8310-01	.4205-02	.3472-02	.4079-02	2.668	17.25	570.6
344	.00000	.45000	805.00	.8010-01	.6610-01	.7770-01	.3931-02	.3244-02	.3812-02	2.487	16.56	572.4
344	.00000	.50000	806.00	.7330-01	.6050-01	.7110-01	.3598-02	.2967-02	.3489-02	2.266	15.53	575.2
344	.00000	.55000	807.00	.6140-01	.5140-01	.6230-01	.3658-02	.3014-02	.3546-02	2.295	16.76	577.6
344	.00000	.60000	808.00	.7990-01	.6580-01	.7750-01	.3920-02	.3230-02	.3801-02	2.456	17.92	578.8
344	.00000	.65000	809.00	.1005	.8260-01	.9740-01	.4929-02	.4054-02	.4777-02	3.057	22.24	594.9
344	.00000	.70000	810.00	.1346	.1105	.1304	.6604-02	.5422-02	.6399-02	4.058	30.45	590.7
344	.00000	.75000	811.00	.1806	.1480	.1749	.8859-02	.7263-02	.8582-02	5.396	39.04	596.1
344	.00000	.80000	812.00	.2195	.1796	.2126	.1077-01	.8811-02	.1043-01	6.493	46.85	602.1
344	.00000	.85000	813.00	.2321	.1897	.2273	.1138-01	.9307-02	.1115-01	50.91	50.91	605.1
344	.00000	.90000	814.00	.2181	.1785	.2142	.1070-01	.8763-02	.1051-01	6.485	45.34	599.0
344	.00000	.92500	815.00	.1827	.1499	.1799	.8963-02	.7354-02	.8827-02	5.485	44.16	593.2
344	.00000	.95000	816.00	.1850	.1516	.1827	.9078-02	.7438-02	.8962-02	5.513	44.28	597.8
344	.00000	.97500	817.00	.2009	.1643	.1989	.9857-02	.8062-02	.9757-02	5.930	47.50	603.6
344	.00000	1.0150	818.00	.1346	.1109	.1337	.6602-02	.5442-02	.6558-02	4.146	30.28	577.1
344	.00000	1.0200	819.00	.1302	.1074	.1293	.6388-02	.5269-02	.6345-02	4.029	29.46	574.4
344	.00000	1.0600	821.00	.1120	.9230-01	.1112	.5493-02	.4526-02	.5456-02	3.442	28.44	578.5
344	.00000	.15000	89.000	.7000-02	.5800-02	.7000-02	.3421-03	.2847-03	.3421-03	2.270	1.368	541.7
344	.00000	.20000	91.000	.2520-01	.2090-01	.2520-01	.1234-02	.1027-02	.1234-02	8.180	5.088	542.2
344	.00000-01	.50000-01	90.000	.9600-02	.8000-02	.9600-02	.4692-03	.3905-03	.4692-03	3.120	1.880	540.7
344	.00000	.40000	823.00	.8550-01	.7050-01	.8290-01	.4196-02	.3457-02	.4068-02	2.628	20.55	578.8
344	.00000	.50000	824.00	.8010-01	.6590-01	.7770-01	.3931-02	.3235-02	.3811-02	1.905	19.11	582.4
344	.00000	.60000	825.00	.6260-01	.5150-01	.6070-01	.3072-02	.2527-02	.2978-02	1.905	16.63	585.0
344	.00000	.70000	826.00	.1053	.8650-01	.1021	.5168-02	.4243-02	.5008-02	3.175	23.04	590.7
344	.00000	.80000	827.00	.1786	.1463	.1730	.8762-02	.7179-02	.8487-02	5.322	38.48	597.7
344	.00000	.90000	828.00	.1835	.1503	.1802	.9001-02	.7374-02	.8839-02	5.464	42.32	598.1
344	.00000	.92500	971.00	.1403	.1114	.1403	.6882-02	.5644-02	.6682-02	30.31	30.31	594.5
344	.00000	.95000	975.00	.1352	.1114	.1352	.6632-02	.5464-02	.6632-02	4.153	30.43	578.9
344	.00000	.97500	980.00	.4960-01	.4120-01	.4960-01	.2435-02	.2023-02	.2435-02	1.603	11.89	546.7
344	.00000	.20000	93.000	.1390-01	.1150-01	.1390-01	.6877-03	.5666-03	.6808-03	4.520	2.803	540.9
344	.00000	.25000	970.00	.1230	.1011	.1230	.6032-02	.4958-02	.6032-02	3.732	27.13	586.5
344	.00000	.30000	974.00	.6070-01	.5030-01	.6070-01	.2977-02	.2469-02	.2977-02	1.937	14.30	554.7
344	.00000	.35000	979.00	.2320-01	.1930-01	.2320-01	.1137-02	.9467-03	.1137-02	7.580	5.645	536.4
344	.00000	.40000	.83100+10	.1043	.8610-01	.1012	.5119-02	.4222-02	.4964-02	3.227	22.12	574.8
344	.00000	.45000	832.00	.9020-01	.7420-01	.8740-01	.4424-02	.3642-02	.4288-02	2.758	19.45	581.7
344	.00000	.50000	833.00	.8530-01	.7020-01	.8270-01	.4184-02	.3442-02	.4056-02	2.596	17.17	584.8
344	.00000	.55000	834.00	.8110-01	.6660-01	.7860-01	.3978-02	.3442-02	.3955-02	2.447	18.37	590.0
344	.00000	.60000	835.00	.1166	.9580-01	.1130	.5719-02	.4697-02	.5542-02	3.519	24.72	589.8

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1831)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TM DEG. R
344	32.000	.90000	835.00	.1481	.1217	.1455	.7266-02	.5968-02	.7137-02	4.474	32.48	589.3
344	32.000	.95000	837.00	.1666	.1369	.1646	.8175-02	.6714-02	.8073-02	5.032	37.79	589.6
344	32.000	.97500	838.00	.1768	.1449	.1750	.8572-02	.7110-02	.8585-02	5.288	41.01	595.4
344	32.000	1.0150	839.00	.1402	.1152	.1337	.6876-02	.5652-02	.6560-02	4.250	33.70	587.0
344	32.000	1.0300	840.00	.1386	.1141	.1323	.6800-02	.5599-02	.6490-02	4.247	32.60	580.5
344	32.000	1.0450	841.00	.1396	.1149	.1332	.6847-02	.5638-02	.6536-02	4.276	32.25	580.6
344	45.000	.92500	969.00	.8000-02	.6700-02	.8000-02	.3948-03	.3285-03	.3948-03	.2620	1.947	541.8
344	45.000	.95000	973.00	.2500-02	.2100-02	.2500-02	.1244-03	.1036-03	.1244-03	.8300-01	.6160	540.2
344	45.000	.97500	978.00	.2300-02	.1900-02	.2300-02	.1115-03	.9279-04	.1115-03	.7400-01	.5520	539.5
344	75.000	.97500	977.00	.1200-02	.1000-02	.1200-02	.6076-04	.5059-04	.6076-04	.4000-01	.3010	539.1
344	85.000	.97500	976.00	.2900-02	.2400-02	.2900-02	.1406-03	.1171-03	.1406-03	.9400-01	.6970	539.2
344	180.00	.10000-01	59.000	.1720	.1421	.1720	.8436-02	.6971-02	.8436-02	5.376	39.45	567.9
344	180.00	.25000-01	60.000	.4720-01	.3920-01	.4720-01	.2316-02	.1923-02	.2316-02	1.518	10.88	549.6
344	180.00	.50000-01	61.000	.2000-01	.1660-01	.2000-01	.9791-03	.8141-03	.9791-03	.6460	4.113	544.9
344	180.00	.75000-01	62.000	.1100-01	.9100-02	.1100-01	.5380-03	.4475-03	.5380-03	.3560	2.268	543.1
344	180.00	.10000-00	63.000	.9700-02	.8000-02	.9700-02	.4739-03	.3942-03	.4739-03	.3140	2.056	543.2
344	180.00	.12500	64.000	.1380-01	.1150-01	.1380-01	.6753-03	.5617-03	.6753-03	.4470	3.113	543.3
344	180.00	.15000	65.000	.2460-01	.2050-01	.2460-01	.1208-02	.1004-02	.1208-02	.7980	5.556	544.4
344	180.00	.16000	66.000	.7470-01	.6190-01	.7470-01	.3663-02	.3038-02	.3663-02	2.387	13.23	553.3
344	180.00	.17000	67.000	.9920-01	.8230-01	.9920-01	.4866-02	.4039-02	.4866-02	3.179	17.64	551.8
344	180.00	.20000	69.000	.1490-01	.1240-01	.1490-01	.7266-03	.6064-03	.7266-03	.4840	3.060	540.8
344	180.00	.40100	72.000	.1160-01	.9600-02	.1160-01	.5686-03	.4732-03	.5686-03	.3780	3.211	541.0
344	180.00	.50000	73.000	.9900-02	.8300-02	.9900-02	.4871-03	.4054-03	.4871-03	.3240	2.752	540.6
344	180.00	.60100	74.000	.8000-02	.6700-02	.8000-02	.3942-03	.3282-03	.3942-03	.2620	2.160	539.6
344	180.00	.70100	75.000	.6300-02	.5300-02	.6300-02	.3103-03	.2583-03	.3103-03	.2070	1.649	539.1

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ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B32)

FUSELAGE

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 15.00 SPDRK = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAH DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
364	7.980	1.969	40.13	.0000	180.0	430.5	.4500-01	1306.	95.10	1.998	3813.	.3954-04
365	7.980	1.959	40.08	.0000	180.0	429.3	.4500-01	1308.	95.20	1.992	3816.	.3937-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
364	.7657-07	.3474-01	0.0175
365	.7668-07	.3470-01	.2907-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TM DEG. R
364	.00000	.00000	1.0000	.6062	.4977	.5416	.2106-01	.1729-01	.1882-01	12.61	69.10	576.9
364	.00000	.50000-02	2.0000	.7035	.5750	.5750	.2444-01	.1998-01	.1998-01	14.29	97.18	591.1
364	.00000	.10000-01	3.0000	.6402	.5244	.5306	.2224-01	.1822-01	.1843-01	13.16	87.07	584.1
364	.00000	.20000-01	4.0000	.4399	.3626	.3769	.1528-01	.1260-01	.1310-01	9.366	51.68	562.9
364	.00000	.30000-01	5.0000	.3376	.2786	.2942	.1173-01	.0981-02	.1022-01	7.242	40.05	558.2
364	.00000	.40000-01	6.0000	.2821	.2413	.2575	.1015-01	.0833-02	.0947-02	6.299	34.89	554.9
364	.00000	.50000-01	7.0000	.2695	.2220	.2392	.0936-02	.0771-02	.0812-02	5.719	38.20	565.0
364	.00000	.60000-01	8.0000	.2850	.2351	.2748	.0903-02	.0816-02	.0852-02	5.087	38.41	561.0
364	.00000	.70000-01	9.0000	.2451	.2020	.2204	.0516-02	.0701-02	.0659-02	5.207	35.89	559.8
364	.00000	.80000-01	10.000	.1963	.1619	.1776	.0820-02	.0567-02	.0619-02	4.200	29.01	559.8
364	.00000	.90000-01	11.000	.1573	.1270	.1410	.0515-02	.0464-02	.0508-02	3.767	25.94	555.9
364	.00000	.10000+00	12.000	.1750	.1445	.1595	.0080-02	.0021-02	.0042-02	3.459	22.54	556.1
364	.00000	.13000	15.000	.1537	.1270	.1463	.0547-02	.0413-02	.0490-02	3.324	19.40	553.1
364	.00000	.14000	16.000	.1462	.1208	.1343	.0339-02	.0198-02	.0367-02	3.159	20.01	553.8
364	.00000	.16000	18.000	.1529	.1263	.1407	.0312-02	.0388-02	.0489-02	2.293	20.26	555.8
364	.00000	.17000	19.000	.1255	.1255	.1401	.0280-02	.04360-02	.04865-02	3.268	20.67	556.8
364	.00000	.18000	20.000	.1505	.1212	.1388	.0228-02	.04316-02	.04822-02	3.233	20.44	557.4
364	.00000	.19000	21.000	.1434	.1185	.1324	.04981-02	.04116-02	.04601-02	3.097	19.61	554.0

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(970) BTU/R FT/SEC	H(TO) BTU/R FT/SEC	H(TAH) BTU/R FT/SEC	QDOT BTU/ FT/SEC	DTWOT DEG. R /SEC	TW DEG. R
364	.00000	.20000	22.000	.1433	.1183	.1325	.4980-02	.4112-02	.4604-02	3.091	19.48	557.0
364	.00000	.22500	23.000	.1353	.1117	.1254	.4700-02	.3892-02	.4358-02	2.914	18.44	555.7
364	.00000	.25000	801.00	.1302	.1075	.1209	.4523-02	.3735-02	.4200-02	2.801	17.72	556.4
364	.00000	.30000	802.00	.1212	.1001	.1126	.4212-02	.3477-02	.3911-02	2.603	16.45	557.8
364	.00000	.35000	803.00	.1223	.1009	.1135	.4251-02	.3504-02	.3944-02	2.606	16.44	562.5
364	.00000	.40000	804.00	.1201	.9900-01	.1115	.4174-02	.3440-02	.3873-02	2.555	16.58	563.6
364	.00000	.45000	805.00	.1104	.9980-01	.1024	.3835-02	.3156-02	.3556-02	2.330	15.54	568.1
364	.00000	.50000	806.00	.1007	.8280-01	.9330-01	.3497-02	.2877-02	.3242-02	2.120	14.58	569.3
364	.00000	.55000	807.00	.9430-01	.7870-01	.8880-01	.3327-02	.2725-02	.3084-02	2.005	14.67	573.1
364	.00000	.60000	808.00	.8950-01	.7270-01	.8200-01	.3074-02	.2635-02	.2846-02	1.850	13.53	573.9
364	.00000	.65000	809.00	.8430-01	.7000-01	.7900-01	.2963-02	.2432-02	.2744-02	1.772	12.94	577.4
364	.00000	.70000	810.00	.9330-01	.7410-01	.8360-01	.3137-02	.2573-02	.2905-02	1.871	14.12	579.1
364	.00000	.75000	811.00	.9320-01	.8130-01	.9240-01	.3469-02	.2844-02	.3211-02	2.066	15.07	579.8
364	.00000	.80000	812.00	.1194	.9500-01	.1105	.4149-02	.3404-02	.3642-02	2.475	18.06	579.0
364	.00000	.85000	813.00	.1268	.1040	.1187	.4409-02	.3613-02	.4125-02	2.625	19.81	576.4
364	.00000	.90000	814.00	.1341	.1101	.1259	.4659-02	.3625-02	.4373-02	2.792	19.74	576.4
364	.00000	.92500	815.00	.1209	.9930-01	.1138	.4201-02	.3452-02	.3955-02	2.528	20.55	574.0
364	.00000	.95000	816.00	.1301	.1178	.1268	.4521-02	.3712-02	.4267-02	2.708	21.98	576.8
364	.00000	.97500	817.00	.1435	.1178	.1359	.4931-02	.4091-02	.4720-02	2.967	24.03	581.2
364	.00000	1.0150	818.00	.1161	.9570-01	.1103	.4035-02	.3324-02	.3833-02	2.464	18.11	564.8
364	.00000	1.0300	819.00	.1122	.9250-01	.1066	.3898-02	.3213-02	.3704-02	2.391	17.59	562.3
364	.00000	1.0650	821.00	.1013	.8340-01	.9620-01	.3520-02	.2698-02	.3344-02	2.144	17.83	566.4
364	.00000	1.5000	89.000	.5200-02	.4300-02	.5200-02	.1795-03	.1491-03	.1795-03	.1150	.6970	533.8
364	11.500	.20000	91.000	.8200-02	.6800-02	.8200-02	.2854-03	.2372-03	.2854-03	.1830	1.141	533.1
364	14.000	.50000	90.000	.9500-02	.8200-02	.9800-02	.3422-03	.2843-03	.3422-03	.2190	1.328	534.3
364	17.500	.40000	823.00	.1125	.9250-01	.1043	.3909-02	.3215-02	.3624-02	2.365	18.57	570.6
364	17.500	.50000	824.00	.1051	.8720-01	.9830-01	.3688-02	.3029-02	.3417-02	2.214	17.34	575.4
364	17.500	.60000	825.00	.6330-01	.5730-01	.6460-01	.2425-02	.1990-02	.2246-02	1.448	12.69	578.5
364	17.500	.70000	826.00	.9390-01	.7630-01	.8680-01	.3258-02	.2671-02	.3016-02	1.938	14.12	580.9
364	17.500	.80000	827.00	.1135	.9310-01	.105	.3943-02	.3235-02	.3652-02	2.352	17.16	576.6
364	17.500	.90000	828.00	.1206	.9900-01	.1132	.4188-02	.3439-02	.3931-02	2.509	19.64	579.2
364	20.000	.92500	971.00	.1572	.1372	.1672	.5310-02	.4765-02	.5310-02	3.463	25.26	579.7
364	20.000	.95000	975.00	.1568	.1307	.1588	.5517-02	.4540-02	.5517-02	3.351	24.58	568.3
364	20.000	.97500	980.00	.9590-01	.4720-01	.5590-01	.1977-02	.1640-02	.1977-02	1.256	9.340	540.7
364	24.000	.20000	93.000	.1150-01	.9500-02	.1150-01	.3983-03	.3310-03	.3983-03	.2560	1.591	533.5
364	20.000	.92500	970.00	.1378	.1131	.1372	.4787-02	.3931-02	.4787-02	2.872	20.99	548.7
364	30.000	.95000	974.00	.7170-01	.5930-01	.7170-01	.2490-02	.2060-02	.2490-02	1.561	11.57	537.0
364	30.000	.97500	979.00	.1580-01	.1310-01	.1580-01	.5498-03	.4554-03	.5498-03	.3510	2.617	565.5
364	32.000	.40000	831.00+10	.1339	.1103	.1242	.4652-02	.3831-02	.4315-02	2.838	19.55	573.8
364	32.000	.50000	832.00	.1150	.9450-01	.1066	.3997-02	.3284-02	.3704-02	2.426	17.03	573.8
364	32.000	.60000	833.00	.9300-01	.8120-01	.9170-01	.3441-02	.2822-02	.3186-02	2.051	13.60	579.7
364	32.000	.70000	834.00	.8550-01	.7010-01	.7910-01	.2970-02	.2434-02	.2749-02	1.762	13.27	582.5
364	32.000	.80000	835.00	.1046	.8580-01	.9670-01	.3634-02	.2980-02	.3365-02	2.164	15.27	580.2



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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PUR NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(IGTO) BTU/ R FT2SEC	H(IGTO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. K
364	32.000	.90000	836.00	.1202	.9870-01	.1129	.4177-02	.3430-02	.3921-02	2.508	18.34	575.2
364	32.000	.95000	837.00	.1697	.1393	.1602	.5898-02	.4841-02	.5565-02	3.531	26.68	576.9
364	32.000	.97500	838.00	.2010	.1648	.1901	.6985-02	.5724-02	.6606-02	4.143	32.33	582.6
364	32.000	1.0150	839.00	.1552	.1283	.1426	.5425-02	.4458-02	.4953-02	3.268	26.09	573.3
364	32.000	1.0300	840.00	.1459	.1201	.1334	.5071-02	.4174-02	.4634-02	3.085	23.84	567.2
364	32.000	1.0450	841.00	.1538	.1266	.1405	.5342-02	.4338-02	.4882-02	3.252	24.70	566.8
364	45.000	.92500	969.00	.1040-01	.8600-02	.1040-01	.3609-03	.2994-03	.3609-03	.2300	1.709	539.3
364	45.000	.95000	973.00	.1100-02	.9000-03	.1100-02	.3876-04	.3218-04	.3976-04	.2500-01	.1850	536.8
364	45.000	.97500	978.00	.1000-02	.9000-03	.1000-02	.3630-04	.3015-04	.3630-04	.2300-01	.1730	535.6
364	75.000	.97500	977.00	.3000-03	.3000-03	.3000-03	.1125-04	.9339-05	.1125-04	.7000-02	.5400-01	535.5
364	85.000	.97500	976.00	.1100-02	.9000-03	.1100-02	.3983-04	.3226-04	.3683-04	.2500-01	.1860	535.0
364	180.00	.10000-01	53.000	.1042	.8630-01	.1042	.3620-02	.3000-02	.3620-02	2.285	16.97	544.4
364	180.00	.25000-01	60.000	.2610-01	.2170-01	.2610-01	.9081-03	.7535-03	.9081-03	.5760	4.185	539.0
364	180.00	.50000-01	61.000	.1300-01	.1080-01	.1300-01	.4533-03	.3763-03	.4533-03	.2890	1.846	537.9
364	180.00	.75000-01	62.000	.1260-01	.1050-01	.1260-01	.4380-03	.3636-03	.4380-03	.2800	1.785	537.4
364	180.00	.10000+00	63.000	.2130-01	.1770-01	.2130-01	.7415-03	.6154-03	.7415-03	.4730	3.109	537.8
364	180.00	.12500	64.000	.2710-01	.2250-01	.2710-01	.9407-03	.7808-03	.9407-03	.6000	4.191	537.7
364	180.00	.15000	65.000	.3580-01	.2970-01	.3580-01	.1243-02	.1032-02	.1243-02	.7930	5.538	537.8
364	180.00	.16000	66.000	.9170-01	.7600-01	.9170-01	.3186-02	.2640-02	.3186-02	2.015	11.23	543.0
364	180.00	.17000	67.000	.1113	.9220-01	.1113	.3868-02	.3205-02	.3868-02	2.442	13.60	544.2
364	180.00	.20000	69.000	.1950-01	.1630-01	.1960-01	.6820-03	.5654-03	.6820-03	.370	2.715	535.2
364	180.00	.40100	72.000	.5000-02	.4100-02	.5000-02	.1733-03	.1440-03	.1733-03	.1110	.9480	534.9
364	180.00	.50000	73.000	.5300-02	.4400-02	.5300-02	.1830-03	.1520-03	.1830-03	.1170	.9990	535.4
364	180.00	.60100	74.000	.5700-02	.4800-02	.5700-02	.1991-03	.1654-03	.1991-03	.1280	1.053	535.2
364	180.00	.70100	75.000	.4300-02	.3600-02	.4300-02	.1491-03	.1238-03	.1491-03	.9600-01	.7650	534.1

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

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## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 15.00 SPOBRK = .0000  
 BOFLAP = .0000 MACH = 8.0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
358	7.990	2.941	40.12	.0000	180.0	674.0	.7000-01	1345.	97.70	3.110	3869.	.5978-04
359	7.990	2.936	40.11	.0000	180.0	674.7	.7000-01	1348.	97.90	3.114	3873.	.5972-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R	ST FR R =
358	.7864-07	.4357-01	.0175	0.0175
359	.7880-07	.4361-01	.2366-01	.2367-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
358	.00000	.00000	1.0000	.5933	.4876	.5304	.2585-01	.2125-01	.2311-01	16.05	87.35	589.7
358	.00000	.50000-02	2.0000	.7029	.5748	.5748	.3082-01	.2504-01	.2504-01	18.48	124.7	606.9
358	.00000	.10000-01	3.0000	.6218	.5098	.5157	.2709-01	.2221-01	.2247-01	16.58	108.9	598.6
358	.00000	.20000-01	4.0000	.4367	.3607	.3748	.1903-01	.1571-01	.1633-01	12.14	66.65	572.4
358	.00000	.30000-01	5.0000	.3381	.2797	.2951	.1473-01	.1219-01	.1285-01	9.491	52.28	566.0
358	.00000	.40000-01	6.0000	.2930	.2426	.2587	.1276-01	.1057-01	.1127-01	8.274	45.66	562.2
358	.00000	.50000-01	7.0000	.2719	.2244	.2416	.1184-01	.9775-02	.1053-01	7.524	50.01	575.2
358	.00000	.60000-01	8.0000	.2812	.2324	.2517	.1225-01	.1013-01	.1097-01	7.849	49.32	569.9
358	.00000	.70000-01	9.0000	.2483	.2049	.2235	.1082-01	.8929-02	.9737-02	6.879	47.16	574.5
358	.00000	.80000-01	10.000	.2005	.1658	.1816	.8736-02	.7222-02	.7911-02	5.605	38.54	568.7
358	.00000	.90000-01	11.000	.1862	.1542	.1694	.8113-02	.6717-02	.7379-02	5.250	33.09	563.3
358	.00000	.10000+00	12.000	.1715	.1419	.1565	.7470-02	.6184-02	.6818-02	4.832	28.81	563.6
358	.00000	.12000	14.000	.1631	.1352	.1497	.7106-02	.5890-02	.6520-02	4.632	25.61	558.5
358	.00000	.13000	15.000	.1557	.1290	.1431	.6785-02	.5623-02	.6235-02	4.413	25.66	560.0
358	.00000	.14000	16.000	.1463	.1212	.1346	.6374-02	.5280-02	.5864-02	4.138	26.11	561.2
358	.00000	.16000	18.000	.1500	.1242	.1382	.6536-02	.5410-02	.6023-02	4.225	25.88	564.0
358	.00000	.17000	19.000	.1505	.1245	.1388	.6558-02	.5426-02	.6050-02	4.228	26.62	565.7
358	.00000	.18000	20.000	.1482	.1226	.1368	.6457-02	.5342-02	.5950-02	4.158	26.17	566.4
358	.00000	.19000	21.000	.1353	.1120	.1251	.5895-02	.4881-02	.5450-02	3.816	24.06	563.0

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19T0) BTU/ R FT2SEC	H1T0) BTU/ R FT2SEC	H1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TH DEG. R
358	.00000	.20000	22.000	.1434	.1187	.1327	.6249-02	.5170-02	.5783-02	4.026	25.34	566.2
358	.00000	.22000	23.000	.1355	.1121	.1257	.5903-02	.4886-02	.5477-02	3.812	24.01	564.7
358	.00000	.25000	801.00	.1295	.1072	.1204	.5643-02	.4668-02	.5244-02	3.637	22.90	565.8
358	.00000	.30000	802.00	.1230	.1017	.1143	.5358-02	.4430-02	.4978-02	3.443	21.65	567.9
358	.00000	.35000	803.00	.1286	.1061	.1194	.5602-02	.4624-02	.5201-02	3.564	22.35	574.1
358	.00000	.40000	804.00	.1225	.1010	.1137	.5335-02	.4401-02	.4952-02	3.380	21.78	576.9
358	.00000	.45000	805.00	.1125	.9270-01	.1044	.4903-02	.4040-02	.4549-02	3.087	20.76	580.9
358	.00000	.50000	805.00	.1018	.8390-01	.9440-01	.4434-02	.3651-02	.4113-02	2.780	18.98	583.4
358	.00000	.55000	807.00	.9910-01	.8140-01	.9180-01	.4317-02	.3548-02	.4001-02	2.681	19.46	589.3
358	.00000	.60000	808.00	.1062	.8720-01	.9840-01	.4626-02	.3800-02	.4286-02	2.862	20.75	591.7
358	.00000	.65000	809.00	.1585	.1298	.1467	.6905-02	.5654-02	.6390-02	4.194	30.25	633.0
358	.00000	.70000	810.00	.2535	.2067	.2342	.1105-01	.9007-02	.1020-01	5.563	48.64	616.2
358	.00000	.75000	811.00	.3170	.2580	.2826	.1381-01	.1124-01	.1275-01	8.121	58.01	622.4
358	.00000	.80000	812.00	.3380	.2750	.3120	.1473-01	.1198-01	.1359-01	8.640	61.68	623.7
358	.00000	.85000	813.00	.3211	.2612	.2997	.1393-01	.1138-01	.1306-01	8.206	60.60	623.7
358	.00000	.90000	814.00	.3065	.2499	.2870	.1336-01	.1089-01	.1251-01	7.927	54.95	616.9
358	.00000	.92500	815.00	.2661	.2173	.2661	.1159-01	.9469-02	.1089-01	6.955	55.53	610.4
358	.00000	.95000	816.00	.2704	.2304	.2546	.1178-01	.9605-02	.1109-01	6.989	55.61	617.2
358	.00000	.97500	817.00	.2852	.2319	.2691	.1242-01	.1011-01	.1172-01	7.279	57.71	624.5
358	.00000	1.0150	818.00	.2041	.1675	.1937	.8890-02	.7298-02	.8438-02	5.479	39.68	554.1
358	.00000	1.0300	819.00	.1964	.1613	.1864	.8555-02	.7029-02	.8123-02	5.299	38.44	591.0
358	.00000	1.0600	821.00	.1770	.1451	.1579	.7711-02	.6323-02	.7317-02	4.726	38.68	597.5
358	.00000	.15000	89.000	.5500-02	.4500-02	.5500-02	.2378-03	.1982-03	.2378-03	.1600	.9690	535.4
358	.00000	.15000	89.000	.6000-02	.6700-02	.8000-02	.3475-03	.2899-03	.3475-03	.2350	1.463	533.6
358	.00000	.20000	91.000	.1240-01	.1030-01	.1240-01	.5332-03	.4497-03	.5392-03	.3640	2.204	534.6
358	.00000	.50000-01	90.000	.1125	.9660-01	.1043	.4902-02	.4034-02	.4545-02	3.065	23.89	585.2
358	.00000	.40000	823.00	.1051	.8630-01	.9740-01	.4581-02	.3762-02	.4244-02	2.830	21.98	592.5
358	.00000	.50000	824.00	.1051	.8630-01	.9740-01	.4581-02	.3762-02	.4244-02	2.830	21.98	592.5
358	.00000	.60000	825.00	.7890-01	.6470-01	.7310-01	.3437-02	.2820-02	.3183-02	2.111	18.32	596.3
358	.00000	.70000	826.00	.3114	.2534	.2874	.1357-01	.1104-01	.1252-01	7.979	57.00	622.2
358	.00000	.80000	827.00	.3334	.2713	.3077	.1453-01	.1182-01	.1341-01	8.543	61.03	622.2
358	.00000	.90000	828.00	.2652	.2162	.2433	.1155-01	.9421-02	.1082-01	6.862	52.67	616.4
358	.00000	.92500	971.00	.2417	.1972	.2417	.1053-01	.8591-02	.1053-01	6.273	44.98	614.7
358	.00000	.95000	975.00	.1862	.1531	.1862	.8114-02	.6671-02	.8114-02	5.046	36.65	588.5
358	.00000	.97500	980.00	.6530-01	.5430-01	.6530-01	.2845-02	.2365-02	.2845-02	1.883	13.95	548.7
358	.00000	.20000	93.000	.1270-01	.1060-01	.1270-01	.5539-03	.4620-03	.5539-03	.3750	2.329	534.3
358	.00000	.30000	970.00	.2171	.1774	.2171	.9459-02	.7729-02	.9459-02	5.686	40.88	609.2
358	.00000	.40000	974.00	.8270-01	.6850-01	.8270-01	.3602-02	.2986-02	.3602-02	2.347	17.30	558.7
358	.00000	.50000	979.00	.2330-01	.1940-01	.2330-01	.5903-02	.4848-03	.5903-02	.6800	5.065	539.4
358	.00000	.60000	83100+10	.1355	.1117	.1257	.5903-02	.4848-03	.5903-02	3.732	25.54	578.1
358	.00000	.70000	832.00	.1084	.8910-01	.1004	.4721-02	.3880-02	.4376-02	2.929	20.57	590.1
358	.00000	.80000	833.00	.1063	.8720-01	.9840-01	.4631-02	.3798-02	.4288-02	2.838	18.65	597.6
358	.00000	.90000	834.00	.1216	.9940-01	.1125	.5300-02	.4332-02	.4901-02	3.187	23.71	609.0
358	.00000	.80000	835.00	.2427	.1981	.2243	.1057-01	.8631-02	.9771-02	6.316	43.86	613.0

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OH-498 (AEDC V418-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(90) BTU/R FT/SEC	H(10) BTU/R FT/SEC	H(TAN) BTU/R FT/SEC	QDOT BTU/ FT/SEC	DTROT DEG. R /SEC	TW NEG. R
358	32.000	.90000	836.00	.2794	.2280	.2617	.1217-01	.9335-02	.1140-01	7.264	52.11	613.7
358	32.000	.95000	837.00	.2911	.2377	.2743	.1268-01	.1036-01	.1195-01	7.589	56.36	612.1
358	32.000	.97500	838.00	.2918	.2377	.2754	.1271-01	.1036-01	.1200-01	7.522	57.67	618.7
358	32.000	1.0150	839.00	.2343	.1915	.2133	.1021-01	.8343-02	.9295-02	6.146	48.23	608.2
358	32.000	1.0350	840.00	.2127	.1745	.1940	.9267-02	.7602-02	.8454-02	5.693	43.37	596.0
358	32.000	1.0450	841.00	.2183	.1791	.1991	.9510-02	.7803-02	.8676-02	5.847	43.78	595.5
358	45.000	.92500	869.00	.1330-01	.1100-01	.1330-01	.5786-03	.4812-03	.5786-03	.3850	2.853	545.8
358	45.000	.95000	873.00	.2100-02	.1700-02	.2100-02	.9038-04	.7523-04	.9038-04	.6000-01	.4480	542.7
358	45.000	.97500	878.00	.1800-02	.1500-02	.1800-02	.7687-04	.6401-04	.7687-04	.5100-01	.3830	540.8
358	75.000	.97500	977.00	.7000-03	.6000-03	.7000-03	.2944-04	.2452-04	.2944-04	.2000-01	.1470	540.5
358	85.000	.97500	976.00	.1300-02	.1100-02	.1300-02	.5546-04	.4621-04	.5546-04	.3700-01	.2770	539.1
358	100.000	.10000-01	59.000	.9970-01	.8290-01	.9970-01	.4345-02	.3611-02	.4345-02	2.875	21.30	548.8
358	180.000	.25000-01	60.000	.2440-01	.2030-01	.2440-01	.1064-02	.8859-03	.1064-02	.7110	5.119	541.8
358	180.000	.50000-01	61.000	.1320-01	.1100-01	.1320-01	.6511-03	.4782-03	.6511-03	.3850	2.456	539.8
358	180.000	.75000-01	62.000	.1490-01	.1240-01	.1490-01	.5424-03	.5424-03	.5424-03	.4370	2.789	539.1
358	180.000	.10000+00	63.000	.2430-01	.2070-01	.2430-01	.1065-02	.9035-03	.1085-02	.7270	4.777	539.8
358	180.000	.12500	64.000	.3000-01	.2500-01	.3000-01	.1306-02	.1097-02	.1306-02	.8750	6.108	539.8
358	180.000	.15000	65.000	.3720-01	.3100-01	.3720-01	.1623-02	.1352-02	.1623-02	1.088	7.591	539.9
358	180.000	.16000	66.000	.9190-01	.7640-01	.9190-01	.4005-02	.3330-02	.4005-02	2.657	14.78	546.8
358	180.000	.17000	67.000	.1160	.9640-01	.1160	.5053-02	.4202-02	.5053-02	3.357	18.68	545.9
358	180.000	.20000	68.000	.1780-01	.1490-01	.1780-01	.7769-03	.6477-03	.7769-03	.5240	3.256	535.9
358	180.000	.40100	72.000	.5900-02	.4900-02	.5900-02	.2563-03	.2137-03	.2563-03	.1730	1.476	535.3
358	180.000	.50000	73.000	.7500-02	.6300-02	.7500-02	.3289-03	.2742-03	.3289-03	.2210	1.887	537.1
358	180.000	.60100	74.000	.6300-02	.5300-02	.6300-02	.2752-03	.2294-03	.2752-03	.1850	1.528	537.2
358	180.000	.70100	75.000	.4300-02	.3600-02	.4300-02	.1868-03	.1557-03	.1868-03	.1260	1.006	536.4

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## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 15.00 SPDBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	I DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
346	8.000	3.769	40.11	.0000	180.0	859.1	.8800-01	1337.	96.90	3.942	3859.	.7620-04
347	8.000	3.740	40.13	.0000	180.0	860.0	.8800-01	1345.	97.50	3.946	3870.	.7583-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
346	.7801-07	.4900-01	0.0175
347	.7847-07	.4908-01	.2101-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(19TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTLOT DEG. R /SEC	TH DEG. R
346	.00000	.00000	1.0000	.5928	.4865	.5295	.2905-01	.2384-01	.2594-01	17.79	96.79	590.9
346	.00000	.50000-02	2.0000	.6923	.5645	.5645	.3392-01	.2766-01	.2766-01	20.05	134.9	612.5
346	.00000	.10000-01	3.0000	.6195	.5067	.5127	.3036-01	.2483-01	.2512-01	18.23	119.5	602.9
346	.00000	.20000-01	4.0000	.4057	.3356	.3486	.1988-01	.1645-01	.1708-01	12.73	70.25	562.8
346	.00000	.30000-01	5.0000	.3358	.2777	.2931	.1645-01	.1361-01	.1436-01	10.52	58.02	563.9
346	.00000	.40000-01	6.0000	.3190	.2641	.2817	.1563-01	.1294-01	.1380-01	10.06	55.60	559.7
346	.00000	.50000-01	7.0000	.2717	.2341	.2414	.1331-01	.1098-01	.1183-01	8.374	55.68	574.4
346	.00000	.60000-01	8.0000	.2801	.2314	.2506	.1373-01	.1134-01	.1228-01	8.707	54.73	569.1
346	.00000	.70000-01	9.0000	.2441	.2013	.2196	.1156-01	.9855-02	.1076-01	7.525	51.60	574.3
346	.00000	.80000-01	10.000	.1959	.1618	.1773	.9598-02	.7930-02	.8689-02	6.102	41.98	567.6
346	.00000	.90000-01	11.000	.1908	.1579	.1735	.9351-02	.7739-02	.8503-02	6.000	37.85	561.8
346	.00000	.10000+00	12.000	.1796	.1486	.1638	.8798-02	.7260-02	.8028-02	5.642	33.66	562.1
346	.00000	.12000	14.000	.1542	.1361	.1507	.8048-02	.6669-02	.7384-02	5.206	28.81	556.5
346	.00000	.13000	15.000	.1542	.1277	.1417	.7558-02	.6260-02	.6944-02	4.873	28.36	558.6
346	.00000	.14000	16.000	.1435	.1188	.1320	.7033-02	.5823-02	.6469-02	4.524	28.56	560.2
346	.00000	.16000	18.000	.1528	.1264	.1408	.7489-02	.6194-02	.6898-02	4.789	29.34	563.9
346	.00000	.17000	19.000	.1501	.1241	.1384	.7354-02	.6079-02	.6781-02	4.687	29.51	566.0
346	.00000	.18000	20.000	.1514	.1251	.1397	.7417-02	.6129-02	.6844-02	4.719	29.69	567.2
346	.00000	.19000	21.000	.1451	.1200	.1341	.7110-02	.5882-02	.6572-02	4.550	28.68	563.4

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1STO BTU/R FT/SEC	H1TO BTU/R FT/SEC	H1TAW BTU/R FT/SEC	QDOT BTU/ FT/SEC	DTWOT DEG. R /SEC	TW DEG. R
346	.00000	.20000	22.000	.1431	.1183	.1324	.7014-02	.5796-02	.6488-02	4.462	28.07	567.3
346	.00000	.22500	23.000	.1336	.1105	.1239	.6549-02	.5413-02	.6073-02	4.174	26.28	566.0
346	.00000	.25000	801.00	.1286	.1052	.1194	.5301-02	.5206-02	.5852-02	4.007	25.20	567.5
346	.00000	.30000	802.00	.1234	.1011	.1137	.5999-02	.4954-02	.5571-02	3.801	23.88	569.8
346	.00000	.35000	803.00	.1283	.1057	.1190	.6285-02	.5179-02	.5831-02	3.934	24.63	577.4
346	.00000	.40000	804.00	.1232	.1015	.1143	.6038-02	.4972-02	.5601-02	3.766	24.24	579.7
346	.00000	.45000	805.00	.1095	.9010-01	.1015	.5367-02	.4415-02	.4976-02	3.329	22.04	583.1
346	.00000	.50000	806.00	.1046	.8600-01	.9700-01	.5126-02	.4213-02	.4751-02	3.165	21.58	585.9
346	.00000	.55000	807.00	.1095	.8990-01	.1014	.5363-02	.4400-02	.4957-02	3.277	23.75	592.4
346	.00000	.60000	808.00	.1319	.1081	.1221	.6484-02	.5299-02	.5984-02	3.930	28.44	595.5
346	.00000	.65000	809.00	.2048	.1670	.1892	.1004-01	.8184-02	.9271-02	5.934	42.60	612.1
346	.00000	.70000	810.00	.3107	.2521	.2854	.1522-01	.1235-01	.1403-01	8.751	64.47	628.6
346	.00000	.75000	811.00	.3593	.2911	.3310	.1761-01	.1426-01	.1622-01	10.04	71.36	633.1
346	.00000	.80000	812.00	.3637	.2946	.3351	.1782-01	.1443-01	.1642-01	10.15	72.08	634.0
346	.00000	.85000	813.00	.3481	.2819	.3245	.1706-01	.1381-01	.1590-01	9.702	71.27	634.7
346	.00000	.90000	814.00	.3288	.2669	.3075	.1611-01	.1308-01	.1507-01	9.292	64.10	626.7
346	.00000	.95000	815.00	.2874	.2295	.264	.1382-01	.1125-01	.1297-01	8.072	64.16	619.4
346	.00000	.97500	816.00	.2874	.2333	.2702	.1408-01	.1143-01	.1324-01	9.126	64.37	626.3
346	.00000	1.0150	817.00	.3074	.2489	.2897	.1506-01	.1220-01	.1420-01	8.574	67.66	634.2
346	.00000	1.0300	818.00	.2040	.1673	.1936	.9996-02	.8198-02	.9486-02	6.094	44.15	593.8
346	.00000	1.0300	819.00	.2023	.1650	.1920	.9913-02	.8135-02	.9403-02	6.064	43.98	591.6
346	.00000	1.0500	821.00	.1791	.1466	.1699	.8777-02	.7183-02	.8324-02	5.289	43.22	600.8
346	.00000	1.5000	89.000	.5800-02	.4800-02	.5800-02	.2840-03	.2367-03	.2840-03	.1900	1.152	533.3
346	.00000	2.0000	91.000	.7800-02	.6500-02	.7800-02	.3842-03	.3202-03	.3842-03	.2570	1.599	534.1
346	.00000	5.0000-01	90.000	.6400-02	.5300-02	.6400-02	.3117-03	.2599-03	.3117-03	.2080	1.262	534.4
346	.00000	.40000	823.00	.1100	.9040-01	.1019	.5391-02	.4427-02	.4993-02	3.312	25.77	589.0
346	.00000	.50000	824.00	.1044	.8550-01	.9550-01	.5114-02	.4190-02	.4734-02	3.103	24.05	596.6
346	.00000	.60000	825.00	.9510-01	.7550-01	.8990-01	.4708-02	.3853-02	.4355-02	2.837	24.57	600.8
346	.00000	.70000	826.00	.3632	.2939	.3345	.1780-01	.1440-01	.1639-01	10.10	71.71	635.7
346	.00000	.80000	827.00	.3544	.2872	.3265	.1735-01	.1407-01	.1600-01	9.925	70.57	631.8
346	.00000	.90000	828.00	.2876	.2336	.2690	.1409-01	.1144-01	.1318-01	8.137	62.17	626.1
346	.00000	.92500	971.00	.2645	.2146	.2645	.1366-01	.1051-01	.1296-01	7.448	53.04	628.7
346	.00000	.95000	975.00	.2035	.1669	.2035	.9971-02	.8176-02	.9971-02	6.075	44.00	594.1
346	.00000	.97500	980.00	.6840-01	.5880-01	.6840-01	.3350-02	.2765-02	.3350-02	2.209	16.40	544.2
346	.00000	2.0000	93.000	.1260-01	.1050-01	.1260-01	.6172-03	.5144-03	.6172-03	.4130	2.568	534.4
346	.00000	.92500	970.00	.2386	.1944	.2386	.1169-01	.9526-02	.1169-01	2.873	49.26	615.6
346	.00000	.95000	974.00	.9320-01	.7470-01	.9320-01	.4420-02	.3662-02	.4420-02	2.857	21.08	556.9
346	.00000	.97500	979.00	.1730-01	.1440-01	.1730-01	.8450-03	.7044-03	.8450-03	.5630	4.191	538.3
346	.00000	.40000	831.00+10	.1334	.1058	.1237	.6537-02	.5381-02	.6062-02	4.068	27.80	581.1
346	.00000	.50000	832.00	.1110	.9110-01	.1028	.5440-02	.4463-02	.5038-02	3.320	23.29	593.0
346	.00000	.60000	833.00	.1244	.1018	.1151	.6097-02	.4989-02	.5640-02	3.671	24.08	601.3
346	.00000	.70000	834.00	.2015	.1640	.1860	.9871-02	.8038-02	.9114-02	5.785	42.86	617.3
346	.00000	.80000	835.00	.3287	.2667	.3030	.1611-01	.1307-01	.1485-01	9.258	63.81	628.6

AEDC VKF V41B-57A (OH-49B) COLLATION CHECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

PUR NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R F12SEC	H(1TO) BTU/ R F12SEC	H(TAW) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWDT DEG. R /SEC	TM DEG. R
346	32.000	.90000	836.00	.2998	.2437	.2805	.1459-01	.1194-01	.1374-01	8.526	50.89	623.1
346	32.000	.95000	837.00	.3060	.2468	.2879	.1499-01	.1219-01	.1411-01	8.719	64.45	621.8
346	32.000	.97500	838.00	.3118	.2528	.2933	.1528-01	.1239-01	.1440-01	8.752	66.72	630.5
346	32.000	1.0150	839.00	.2444	.1992	.2222	.1197-01	.9759-02	.1089-01	7.054	55.19	614.3
346	32.000	1.0360	840.00	.2181	.1785	.1983	.1069-01	.8743-02	.9739-02	6.443	48.96	600.6
346	32.000	1.0450	841.00	.2174	.1779	.1981	.1065-01	.8720-02	.9707-02	6.428	46.03	599.9
346	45.000	.95000	969.00	.1430-01	.1190-01	.1433-01	.7021-03	.5842-03	.7021-03	4.650	3.459	540.9
346	45.000	.95000	973.00	.3100-02	.2500-02	.3103-02	.1500-03	.1249-03	.1503-03	9.900-01	.7400	540.4
346	45.000	.97500	978.00	.3100-02	.2600-02	.3103-02	.1540-03	.1222-03	.1540-03	.1020	.7620	538.9
346	75.000	.97500	977.00	.1500-02	.1330-02	.1603-02	.7673-04	.6359-04	.7673-04	5.100-01	.5800	538.6
346	85.000	.97500	976.00	.2400-02	.2000-02	.2403-02	.1197-03	.9971-04	.1197-03	8.000-01	.5940	537.8
346	180.00	.10000-01	59.000	.9970-01	.8290-01	.9973-01	.4866-02	.4032-02	.4866-02	3.222	23.93	543.9
346	180.00	.25000-01	60.000	.2450-01	.2040-01	.2453-01	.1200-02	.9938-03	.1200-02	8.010	5.783	535.7
346	180.00	.50000-01	61.000	.1260-01	.1050-01	.1263-01	.6173-03	.5144-03	.6173-03	.4130	2.641	534.4
346	180.00	.75000-01	62.000	.1530-01	.1270-01	.1533-01	.7484-03	.6236-03	.7484-03	.5000	3.195	535.6
346	180.00	.10000*00	63.000	.2530-01	.2150-01	.2533-01	.1269-02	.1035-02	.1269-02	.8440	5.552	537.3
346	180.00	.12500	64.000	.3020-01	.2620-01	.3023-01	.1481-02	.1233-02	.1481-02	.9850	6.876	529.5
346	180.00	.15000	65.000	.3440-01	.2850-01	.3443-01	.1566-02	.1444-02	.1566-02	1.120	7.814	531.4
346	180.00	.16000	66.000	.8860-01	.7360-01	.8863-01	.4340-02	.3605-02	.4340-02	2.845	15.82	547.7
346	180.00	.17500	67.000	.1143	.9490-01	.1143	.5600-02	.4651-02	.5600-02	3.668	20.39	548.4
346	180.00	.20000	69.000	.1680-01	.1400-01	.1683-01	.8237-03	.6861-03	.8237-03	5.490	3.411	536.7
346	180.00	.40100	72.000	.6900-02	.5900-02	.6903-02	.3366-03	.2821-03	.3366-03	.2260	1.926	536.1
346	180.00	.50000	73.000	.8700-02	.7300-02	.8703-02	.4277-03	.3563-03	.4277-03	.2850	2.432	536.5
346	190.00	.60100	74.000	.7000-02	.5800-02	.7003-02	.3422-03	.2850-03	.3422-03	.2280	1.882	536.5
346	180.00	.70100	75.000	.5300-02	.4400-02	.5303-02	.2593-03	.2161-03	.2593-03	.1730	1.386	535.2

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1833)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 15.00 SPOBRK = .0000  
BOFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAH DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
365	7.980	1.971	30.05	.0000	180.0	428.7	.4500-01	1302.	94.80	1.990	3807.	.3951-04
367	7.980	1.989	30.07	.0000	180.0	429.5	.4500-01	1296.	94.30	1.993	3798.	.3978-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
365	.7631-07	.3465-01		0.0175
367	.7594-07	.3465-01		.2883-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AW) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
365	.00000	.00000	1.0000	.7664	.6244	.6569	.2656-01	.2164-01	.2276-01	15.20	82.38	599.2
366	.00000	.50000-02	2.0000	.7436	.6041	.5076	.2577-01	.2093-01	.2105-01	14.52	97.95	608.0
366	.00000	.10000-01	3.0000	.6210	.5071	.5244	.2152-01	.1757-01	.1817-01	12.47	82.15	592.4
366	.00000	.20000-01	4.0000	.3715	.3059	.3286	.1287-01	.1060-01	.1138-01	7.813	43.06	564.8
366	.00000	.30000-01	5.0000	.2915	.2405	.2634	.1010-01	.8334-02	.9126-02	6.199	34.28	558.1
366	.00000	.40000-01	6.0000	.2443	.2018	.2232	.8466-02	.6992-02	.7753-02	5.228	28.97	554.1
366	.00000	.50000-01	7.0000	.2227	.1825	.2058	.7718-02	.6359-02	.7132-02	4.702	31.45	562.5
366	.00000	.60000-01	8.0000	.2256	.1861	.2101	.7819-02	.6449-02	.7281-02	4.793	30.28	558.7
366	.00000	.70000-01	9.0000	.1907	.1572	.1786	.6808-02	.5447-02	.6197-02	4.037	27.87	560.8
366	.00000	.80000-01	10.000	.1352	.1281	.1464	.5377-02	.4438-02	.5073-02	3.308	22.88	556.5
366	.00000	.90000-01	11.000	.1477	.1220	.1399	.5118-02	.4226-02	.4849-02	3.107	20.07	553.0
366	.00000	1.0000+00	12.000	.1321	.1092	.1257	.4578-02	.3783-02	.4355-02	2.834	16.99	552.8
366	.00000	.12000	14.000	.1210	.1000+00	.1157	.4191-02	.3465-02	.4008-02	2.603	14.45	550.6
366	.00000	.13000	15.000	.1127	.9310-01	.1079	.3905-02	.3227-02	.3741-02	2.422	14.14	551.5
366	.00000	.14000	16.000	.1042	.8610-01	.9990-01	.3609-02	.2983-02	.3462-02	2.236	14.17	552.2
366	.00000	.15000	18.000	.1084	.8960-01	.1042	.3757-02	.3103-02	.3611-02	2.322	14.30	553.8
366	.00000	.17000	19.000	.1066	.8800-01	.1026	.3694-02	.3050-02	.3555-02	2.279	14.43	554.7
366	.00000	.18000	20.000	.1093	.9020-01	.1053	.3787-02	.3127-02	.3648-02	2.335	14.78	555.0
366	.00000	.19000	21.000	.1022	.8450-01	.9860-01	.3543-02	.2927-02	.3417-02	2.194	13.51	552.5



REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V418-57A (OH-498) COLLATION CHECK  
OH-498 (AEDC V418-57A) ORBITER FUSELAGE

DATE 25 AUG 75

PL I NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H19T01 BTU/ R FT2SEC	H1C101 BTU/ R FT2SEC	H1C101 BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	OTWOT DEG. R /SEC	TW DEG. R
366	.00000	.20000	22.000	.1007	.6730-01	.9661-01	.3475-02	.2869-02	.3356-02	2.143	13.57	554.9
366	.00000	.22500	23.000	.9270-01	.7660-01	.8730-01	.3212-02	.2653-02	.3110-02	1.984	12.57	554.0
366	.00000	.25000	801.00	.9000-01	.7430-01	.8730-01	.3117-02	.2653-02	.3023-02	1.924	12.18	554.4
366	.00000	.30000	802.00	.8210-01	.6780-01	.7950-01	.2845-02	.2349-02	.2760-02	1.754	11.10	555.3
366	.00000	.35000	803.00	.8330-01	.6870-01	.8070-01	.2863-02	.2360-02	.2798-02	1.768	11.17	558.8
366	.00000	.40000	804.00	.8240-01	.6800-01	.7990-01	.2856-02	.2355-02	.2770-02	1.746	11.34	550.6
366	.00000	.45000	805.00	.7540-01	.6210-01	.7310-01	.2611-02	.2151-02	.2532-02	1.590	10.64	562.6
366	.00000	.50000	806.00	.6770-01	.5580-01	.6570-01	.2347-02	.1933-02	.2275-02	1.426	9.828	564.1
366	.00000	.55000	807.00	.6530-01	.5420-01	.6380-01	.2280-02	.1876-02	.2211-02	1.379	10.12	567.0
366	.00000	.60000	808.00	.6030-01	.4950-01	.5340-01	.2068-02	.1717-02	.2024-02	1.261	9.252	567.8
366	.00000	.65000	809.00	.5330-01	.4550-01	.5360-01	.1918-02	.1577-02	.1859-02	1.154	8.457	570.0
366	.00000	.70000	810.00	.5200-01	.4270-01	.5040-01	.1802-02	.1481-02	.1746-02	1.082	8.202	571.0
366	.00000	.75000	811.00	.5410-01	.4450-01	.5250-01	.1876-02	.1542-02	.1818-02	1.128	8.261	570.8
366	.00000	.80000	812.00	.6180-01	.5080-01	.5930-01	.2142-02	.1760-02	.2076-02	1.287	9.433	570.6
366	.00000	.85000	813.00	.6230-01	.5120-01	.5930-01	.2159-02	.1775-02	.2110-02	1.300	9.659	569.7
366	.00000	.90000	814.00	.5670-01	.4840-01	.5770-01	.2036-02	.1676-02	.2000-02	1.234	8.772	565.5
366	.00000	.92500	815.00	.4760-01	.3920-01	.4630-01	.1649-02	.1358-02	.1625-02	1.003	8.270	563.2
366	.00000	.95000	816.00	.3630-01	.2990-01	.3580-01	.1251-02	.1036-02	.1242-02	.7660	6.264	562.5
366	.00000	.97500	817.00	.3630-01	.2680-01	.3220-01	.1128-02	.9291-03	.1117-02	.6850	5.595	564.5
366	.00000	1.0150	818.00	.1113	.9120-01	.1106	.3657-02	.3160-02	.3831-02	2.276	16.58	581.7
366	.00000	1.0300	819.00	.2993	.2444	.2972	.1037-01	.8468-02	.1030-01	6.009	43.56	592.3
366	.00000	1.0600	821.00	.3112	.2529	.3090	.1078-01	.8764-02	.1071-01	6.095	49.67	606.5
366	.00000	1.5000	89.000	.8100-02	.6700-02	.8100-02	.2792-03	.2317-03	.2792-03	1.770	1.070	537.4
366	.00000	1.5000	91.000	.1690-01	.1400-01	.1690-01	.5963-03	.4864-03	.5863-03	.3720	2.310	537.3
366	.00000	2.0000	90.000	.5870-02	.4800-02	.5800-02	.2002-03	.1661-03	.2002-03	1.270	.7670	537.8
366	.00000	4.0000	823.00	.8210-01	.6760-01	.7950-01	.2846-02	.2342-02	.2759-02	1.725	13.57	565.6
366	.00000	5.0000	824.00	.7690-01	.6320-01	.7450-01	.2662-02	.2189-02	.2580-02	1.603	12.59	569.6
366	.00000	6.0000	825.00	.5230-01	.4300-01	.5070-01	.1813-02	.1490-02	.1757-02	1.090	9.582	570.6
366	.00000	7.0000	826.00	.6070-01	.4990-01	.5880-01	.2109-02	.1728-02	.2039-02	1.260	9.219	572.9
366	.00000	8.0000	827.00	.6080-01	.5000-01	.5900-01	.2108-02	.1733-02	.2043-02	1.267	9.285	570.7
366	.00000	9.0000	828.00	.5120-01	.210-01	.5030-01	.1773-02	.1460-02	.1742-02	1.075	8.465	565.3
366	.00000	9.2500	971.00	.1042	.6360-01	.1042	.3611-02	.2967-02	.3611-02	2.167	15.87	571.7
366	.00000	9.5000	975.00	.1072	.6830-01	.1072	.3716-02	.3060-02	.3716-02	2.256	16.58	564.6
366	.00000	9.7500	930.00	.4290-01	.3550-01	.4290-01	.1497-02	.1232-02	.1487-02	2.256	16.58	564.6
366	.00000	20.000	93.000	.1190-01	.9900-02	.1190-01	.4122-03	.3421-03	.4122-03	.9330	6.923	544.7
366	.00000	30.000	970.00	.6760-01	.5570-01	.6760-01	.2344-02	.1931-02	.2344-02	1.428	10.51	562.2
366	.00000	30.000	974.00	.4760-01	.3940-01	.4760-01	.1650-02	.1365-02	.1650-02	1.027	7.609	549.1
366	.00000	30.000	979.00	.1570-01	.1300-01	.1570-01	.5429-03	.4500-03	.5429-03	.3420	2.545	541.3
366	.00000	4.0000	83100+10	.1070	.8820-01	.1038	.3705-02	.3055-02	.3596-02	2.256	15.55	563.4
366	.00000	5.0000	832.00	.9000-01	.7400-01	.8720-01	.3118-02	.2564-02	.3022-02	1.879	13.33	569.2
366	.00000	6.0000	833.00	.7600-01	.6240-01	.7360-01	.2632-02	.2163-02	.2551-02	1.580	10.52	571.5
366	.00000	7.0000	834.00	.6580-01	.5410-01	.6380-01	.2281-02	.1874-02	.2210-02	1.368	10.36	572.0
366	.00000	8.0000	835.00	.5330-01	.4380-01	.5170-01	.1848-02	.1519-02	.1791-02	1.112	7.889	569.8

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AM) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
366	32.000	.90000	836.00	.4960-01	.4080-01	.4870-01	.1718-02	.1414-02	.1687-02	1.042	7.660	564.8
366	32.000	.95000	837.00	.5740-01	.4730-01	.5670-01	.1988-02	.1638-02	.1964-02	1.210	9.204	563.3
366	32.000	.97500	838.00	.5580-01	.4600-01	.5530-0	.1935-02	.1595-02	.1917-02	1.181	9.315	561.4
366	32.000	1.0150	839.00	.1707	.1393	.1626	.5915-02	.4825-02	.5633-02	3.409	26.92	595.4
366	32.000	1.0300	840.00	.3072	.2499	.2923	.1064-01	.8660-02	.1013-01	6.046	45.88	603.7
366	32.000	1.0450	841.00	.3370	.2740	.3206	.1168-01	.9494-02	.1111-01	6.614	49.29	605.2
366	45.000	.92500	969.00	.5200-02	.4300-02	.5200-02	.1819-03	.1507-03	.1819-03	.1150	.8510	541.9
366	45.000	.95000	973.00	.1000-02	.8000-03	.1000-02	.3294-04	.2731-04	.3294-04	.2100-01	.1550	540.1
366	45.000	.97500	978.00	.1100-02	.9000-03	.1100-02	.3842-04	.3187-04	.3842-04	.2400-01	.1810	539.2
366	75.000	.97500	977.00	.8000-03	.7000-03	.8000-03	.2779-04	.2305-04	.2779-04	.1800-01	.1310	539.2
366	85.000	.97500	976.00	.2700-02	.2200-02	.2700-02	.9250-04	.7672-04	.9250-04	.5900-01	.4360	538.9
366	180.00	.10000-01	59.000	.1794	.1482	.1794	.6215-02	.5134-02	.6215-02	3.845	28.42	553.1
366	180.00	.25000-01	60.000	.4990-01	.4130-01	.4990-01	.1729-02	.1433-02	.1729-02	1.089	7.833	541.9
366	180.00	.50000-01	61.000	.2130-01	.1760-01	.2130-01	.7366-03	.6110-03	.7366-03	4.660	2.977	538.6
366	180.00	.75000-01	62.000	.1110-01	.9200-02	.1110-01	.3610-03	.3193-03	.3850-03	.2440	1.557	538.2
366	180.00	.10000+00	63.000	.8900-02	.7400-02	.8900-02	.3093-03	.2566-03	.3093-03	1.960	1.288	536.3
366	180.00	.12500	64.000	.1080-01	.9000-02	.1080-01	.3747-03	.3108-03	.3747-03	.2370	1.656	538.7
366	180.00	.15000	65.000	.1930-01	.1600-01	.1930-01	.6672-03	.5533-03	.6672-03	4.220	2.945	539.2
366	180.00	.16000	66.000	.5920-01	.4900-01	.5920-01	.2051-02	.1699-02	.2051-02	1.287	7.164	544.5
366	180.00	.17000	67.000	.8770-01	.7260-01	.8770-01	.3037-02	.2514-02	.3037-02	1.901	10.58	545.7
366	180.00	.20000	69.000	.1490-01	.1240-01	.1490-01	.5168-03	.4288-03	.5168-03	.3280	2.035	537.4
366	180.00	.40100	72.000	.9200-02	.7700-02	.9200-02	.3205-03	.2659-03	.3205-03	.2030	1.731	537.6
366	180.00	.50000	73.000	.8200-02	.6800-02	.8200-02	.2855-03	.2368-03	.2855-03	.1810	1.541	537.9
366	180.00	.60100	74.000	.6500-02	.5400-02	.6500-02	.2237-03	.1856-03	.2237-03	.1420	1.170	537.3
366	180.00	.70100	75.000	.6500-02	.5400-02	.6500-02	.2255-03	.1872-03	.2255-03	.1430	1.145	536.5

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1833)

PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 15.00 SPDBRK = .0000  
BDFLAP = 15.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
352	7.990	2.942	30.10	.0000	180.0	672.9	.6900-01	1343.	97.60	3.105	3867.	.5976-04
353	7.990	2.949	30.07	.0000	180.0	672.5	.6900-01	1341.	97.40	3.103	3863.	.5984-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
352	.7854-07	.4352-01	0.0175
353	.7840-07	.4350-01	.2364-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(IGT) BTU/ R FT <sup>2</sup> SEC	H(IGT) BTU/ R FT <sup>2</sup> SEC	H(IGT) BTU/ R FT <sup>2</sup> SEC	H(IGT) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTAOT DEG. R /SEC	TW DEG. R
352	.00000	.00000	1.0000	.7799	.6375	.6703	.3394-01	.775-01	.2917-01	20.42	110.2	607.2	
352	.00000	.50000-02	2.0000	.7444	.6063	.6098	.3240-01	.2639-01	.2654-01	19.10	128.1	619.3	
352	.00000	.10000-01	3.0000	.6041	.4951	.5117	.2629-01	.2155-01	.2227-01	16.04	105.4	598.9	
352	.00000	.20000-01	4.0000	.3955	.3276	.3511	.1721-01	.1426-01	.1528-01	11.15	61.60	560.8	
352	.00000	.30000-01	5.0000	.2919	.2424	.2646	.1271-01	.1055-01	.1152-01	8.361	46.41	550.8	
352	.00000	.40000-01	6.0000	.2453	.2040	.2254	.1068-01	.0879-02	.0909-02	7.085	39.43	545.3	
352	.00000	.50000-01	7.0000	.2246	.1862	.2081	.0976-02	.0810-02	.0905-02	6.376	42.77	556.7	
352	.00000	.60000-01	8.0000	.2266	.1881	.2115	.0862-02	.0818-02	.0905-02	6.479	41.08	551.9	
352	.00000	.70000-01	9.0000	.1931	.1602	.1815	.0805-02	.0743-02	.0898-02	5.497	38.06	554.9	
352	.00000	.80000-01	10.000	.1589	.1320	.1502	.0691-02	.0575-02	.0637-02	4.564	31.69	548.9	
352	.00000	.90000-01	11.000	.1447	.1204	.1374	.0629-02	.0540-02	.0579-02	4.191	26.68	543.4	
352	.00000	.10000*00	12.000	.1332	.1108	.1269	.0596-02	.0482-02	.0523-02	3.859	23.25	543.1	
352	.00000	.12000	14.000	.1187	.0890-01	.1137	.0516-02	.0430-02	.0494-02	3.466	19.36	538.0	
352	.00000	.13000	15.000	.1127	.0930-01	.1081	.0490-02	.0408-02	.0470-02	3.284	19.30	539.2	
352	.00000	.14000	16.000	.1044	.0869-01	.1003	.0454-02	.0382-02	.0436-02	3.036	19.36	540.5	
352	.00000	.16000	18.000	.1074	.0894-01	.1034	.0467-02	.0391-02	.0450-02	3.115	19.29	542.6	
352	.00000	.17000	19.000	.1077	.0850-01	.1038	.0468-02	.0390-02	.0451-02	3.117	19.84	544.0	
352	.00000	.18000	20.000	.1037	.0863-01	.1001	.0451-02	.0375-02	.0435-02	2.996	19.06	545.3	
352	.00000	.19000	21.000	.1019	.0848-01	.9840-01	.0443-02	.0369-02	.0428-02	2.958	18.85	541.9	

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ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(19T0) BTU/ R FT2SEC	H(1T0) BTU/ R FT2SEC	H(1TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHOT DEG. R /SEC	TW DEG. R
352	.00000	.20000	22.000	.1021	.8490-01	.9870-01	.4444-02	.3696-02	.4297-02	2.950	18.77	545.1
352	.00000	.22500	23.000	.9260-01	.7700-01	.9880-01	.4030-02	.3353-02	.3907-02	2.677	17.04	544.6
352	.00000	.25000	801.00	.9120-01	.7590-01	.9860-01	.3971-02	.3303-02	.3856-02	2.635	16.76	545.4
352	.00000	.30000	802.00	.8380-01	.6960-01	.8130-01	.3547-02	.3030-02	.3541-02	2.406	15.28	549.1
352	.00000	.35000	803.00	.8810-01	.7310-01	.8550-01	.3836-02	.3182-02	.3723-02	2.507	15.87	555.3
352	.00000	.40000	804.00	.8400-01	.6960-01	.8150-01	.3655-02	.3030-02	.3546-02	2.379	15.48	557.8
352	.00000	.45000	805.00	.7640-01	.6320-01	.7410-01	.3824-02	.2753-02	.3225-02	2.152	14.40	561.4
352	.00000	.50000	806.00	.6980-01	.5780-01	.6770-01	.3038-02	.2514-02	.2947-02	1.958	13.49	564.5
352	.00000	.55000	807.00	.6690-01	.5530-01	.6490-01	.2911-02	.2406-02	.2824-02	1.860	13.64	569.8
352	.00000	.60000	808.00	.6520-01	.5390-01	.6330-01	.2840-02	.2346-02	.2754-02	1.811	13.26	571.2
352	.00000	.65000	809.00	.6340-01	.5230-01	.6150-01	.2760-02	.2277-02	.2676-02	1.747	12.77	575.7
352	.00000	.70000	810.00	.6650-01	.5480-01	.6450-01	.2894-02	.2366-02	.2805-02	1.826	13.79	577.9
352	.00000	.75000	811.00	.8070-01	.6650-01	.7820-01	.3510-02	.2893-02	.3403-02	2.209	16.11	579.6
352	.00000	.80000	812.00	.9820-01	.8100-01	.9520-01	.4275-02	.3524-02	.4145-02	2.682	19.64	579.2
352	.00000	.85000	813.00	.1071	.6830-01	.1050	.4663-02	.3843-02	.4570-02	2.935	22.15	579.5
352	.00000	.90000	814.00	.1113	.9190-01	.1094	.4845-02	.3999-02	.4760-02	3.077	21.79	573.7
352	.00000	.92500	815.00	.9600-01	.9190-01	.9460-01	.4177-02	.3452-02	.4115-02	2.671	21.76	569.5
352	.00000	.95000	816.00	.9980-01	.8250-01	.9860-01	.4345-02	.3590-02	.4292-02	2.776	22.61	570.0
352	.00000	.97500	817.00	.1064	.8790-01	.1054	.4632-02	.3827-02	.4587-02	2.956	24.06	570.8
352	.00000	1.0150	818.00	.2366	.2446	.2965	.1500-01	.1054-01	.1290-01	7.902	57.05	600.8
352	.00000	1.0300	819.00	.3684	.3010	.3658	.1603-01	.1310-01	.1592-01	9.614	69.12	609.3
352	.00000	1.0600	821.00	.3022	.2463	.3000	.1315-01	.1072-01	.1306-01	7.793	63.21	616.3
352	.00000	1.15000	821.00	.5700-02	.4800-02	.5700-02	.2501-03	.2093-03	.2501-03	1.720	1.049	520.7
352	.00000	1.20000	89.000	.2180-01	.1820-01	.2180-01	.9491-03	.7930-03	.9491-03	.6480	4.043	526.6
352	.00000	1.50000-01	90.000	.7100-02	.6000-02	.7100-02	.3109-03	.2600-03	.3109-03	.2130	1.300	522.1
352	.00000	.40000	823.00	.8470-01	.7010-01	.8210-01	.3685-02	.3051-02	.3575-02	2.383	18.79	562.1
352	.00000	.50000	824.00	.7600-01	.6280-01	.7370-01	.3309-02	.2734-02	.3209-02	2.113	16.60	570.1
352	.00000	.60000	825.00	.5440-01	.4490-01	.5270-01	.2357-02	.1953-02	.2295-02	1.500	13.16	575.1
352	.00000	.70000	826.00	.7250-01	.5970-01	.7020-01	.3154-02	.2593-02	.3057-02	1.985	14.49	579.3
352	.00000	.80000	827.00	.8820-01	.7270-01	.8550-01	.3838-02	.3165-02	.3721-02	2.422	17.68	577.9
352	.00000	.90000	828.00	.9110-01	.7520-01	.8950-01	.3956-02	.3274-02	.3896-02	2.521	19.77	573.1
352	.00000	.92500	971.00	.1250	.1031	.1250	.5440-02	.4488-02	.5440-02	3.446	25.19	575.5
352	.00000	.95000	975.00	.1191	.9860-01	.1191	.5183-02	.4292-02	.5183-02	3.350	24.65	562.5
352	.00000	.97500	980.00	.4700-01	.3920-01	.4700-01	.2044-02	.1705-02	.2044-02	1.382	10.33	532.5
352	.00000	.20000	93.000	.1220-01	.1020-01	.1220-01	.5308-03	.4438-03	.5308-03	.3630	2.271	524.3
352	.00000	.970.00	970.00	.1017	.8410-01	.1017	.4425-02	.3659-02	.4425-02	2.837	20.82	567.7
352	.00000	.974.00	974.00	.5490-01	.4570-01	.5490-01	.2390-02	.1930-02	.2390-02	1.594	11.85	541.9
352	.00000	.979.00	979.00	.1670-01	.1560-01	.1670-01	.8147-03	.6808-03	.8147-03	.5570	4.172	525.6
352	.00000	.83100*10	.83100*10	.1076	.8920-01	.1044	.4684-02	.3864-02	.4546-02	3.051	21.10	557.5
352	.00000	.9180-01	9180-01	.7590-01	.7590-01	.7590-01	.3997-02	.3304-02	.3877-02	2.560	18.17	568.4
352	.00000	.7890-01	7890-01	.6510-01	.6510-01	.7650-01	.3432-02	.2831-02	.3328-02	2.173	14.44	575.6
352	.00000	.834.00	834.00	.7470-01	.6150-01	.7240-01	.3252-02	.2678-02	.3153-02	2.037	15.35	582.7
352	.00000	.835.00	835.00	.7820-01	.6450-01	.7580-01	.3402-02	.2806-02	.3298-02	2.152	15.22	576.2

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
352	32.000	.90000	836.00	.8770-01	.7250-01	.8610-01	.3815-02	.3154-02	.3749-02	2.444	17.93	568.2
352	32.000	.95000	837.00	.1050	.8680-01	.1037	.4569-02	.3778-02	.4513-02	2.933	22.27	566.9
352	32.000	.97500	838.00	.1210	.1000+00	.1199	.5268-02	.4352-02	.5217-02	3.361	26.39	570.8
352	32.000	1.0150	839.00	.2948	.2400	.2805	.1283-01	.1045-01	.1221-01	7.552	58.91	620.3
352	32.000	1.0300	840.00	.3362	.2744	.3201	.1463-01	.1194-01	.1393-01	8.723	65.90	612.8
352	32.000	1.0450	841.00	.3489	.2845	.3321	.1519-01	.1238-01	.1445-01	9.008	66.79	615.6
352	45.000	.92500	959.00	.7000-02	.5900-02	.7000-02	.3055-03	.2549-03	.3055-03	.2070	1.545	532.0
352	45.000	.95000	973.00	.1800-02	.1500-02	.1800-02	.7695-04	.6417-04	.7695-04	.5200-01	.3870	534.3
352	45.000	.97500	978.00	.1730-02	.1400-02	.1700-02	.7287-04	.6079-04	.7287-04	.4900-01	.3680	532.7
352	75.000	.97500	977.00	.9000-03	.8000-03	.9000-03	.4087-04	.3410-04	.4087-04	.2600-01	.2060	532.8
352	85.000	.97500	976.00	.2500-02	.2000-02	.2500-02	.1066-03	.8896-04	.1066-03	.7200-01	.5380	532.8
352	180.00	.10000-01	59.000	.1749	.1455	.1749	.7612-02	.6333-02	.7612-02	5.062	37.59	543.9
352	180.00	.25000-01	60.000	.4850-01	.4050-01	.4850-01	.2112-02	.1765-02	.2112-02	1.411	10.44	526.9
352	180.00	.50000-01	61.000	.2150-01	.1790-01	.2150-01	.9339-03	.7809-03	.9339-03	.6410	4.122	522.9
352	180.00	.75000-01	62.000	.1130-01	.9500-02	.1130-01	.4933-03	.4126-03	.4933-03	.3390	2.180	522.3
352	180.00	.10000+00	63.000	.9600-02	.8900-02	.9600-02	.4166-03	.3483-03	.4166-03	.2860	1.891	523.3
352	180.00	.12500	64.000	.1250-01	.1050-01	.1250-01	.5457-03	.4562-03	.5457-03	.3730	2.626	524.4
352	180.00	.15000	65.000	.2290-01	.1910-01	.2290-01	.9970-03	.8331-03	.9970-03	.6810	4.782	526.1
352	180.00	.16000	66.000	.7580-01	.6320-01	.7580-01	.3300-02	.2751-02	.3300-02	2.224	12.45	534.8
352	180.00	.17000	67.000	.9300-01	.7750-01	.9300-01	.4046-02	.3371-02	.4046-02	2.717	15.18	537.3
352	180.00	.20000	69.000	.1510-01	.1270-01	.1510-01	.6593-03	.5508-03	.6593-03	.4490	2.805	527.2
352	180.00	.40100	72.000	.1050-01	.8800-02	.1050-01	.4578-03	.3822-03	.4578-03	.3110	2.660	529.8
352	180.00	.50000	73.000	.9400-02	.7900-02	.9400-02	.4109-03	.3430-03	.4109-03	.2790	2.386	530.2
352	180.00	.60100	74.000	.6700-02	.5600-02	.6700-02	.2898-03	.2419-03	.2898-03	.1970	1.828	530.4
352	180.00	.70100	75.000	.6800-02	.5700-02	.6800-02	.2979-03	.2488-03	.2979-03	.2020	1.625	529.2

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1833)

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 15.00 SPOBRK = .0000  
BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
348	8.000	3.765	30.10	.0000	180.0	859.0	8800-01	1338.	97.00	3.942	3860.	.7614-04
349	8.000	3.775	30.08	.0000	180.0	857.1	8800-01	1334.	96.60	3.933	3853.	.7622-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
348	.7806-07	.4900-01	0.0175
349	.7780-07	.4892-01	.2093-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AW) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	UTWOT DEG. R /SEC	TW DEG. R
348	.00000	.00000	1.0000	.7746	.6286	.6619	.3796-01	.3080-01	.3244-01	21.87	116.8	628.2
348	.00000	.50000-02	2.0000	.7447	.6016	.6051	.3649-01	.2813-01	.2865-01	20.52	136.2	641.8
348	.00000	.10000-01	3.0000	.6062	.4931	.5102	.2971-01	.2417-01	.2500-01	17.33	112.7	620.7
348	.00000	.20000-01	4.0000	.3962	.3263	.3504	.1942-01	.1599-01	.1717-01	12.12	66.29	580.1
348	.00000	.30000-01	5.0000	.2891	.2388	.2613	.1417-01	.1170-01	.1280-01	8.995	49.47	569.3
348	.00000	.40000-01	6.0000	.2416	.1999	.2214	.1184-01	.9796-02	.1085-01	7.590	41.87	563.2
348	.00000	.50000-01	7.0000	.2260	.1863	.2088	.1107-01	.9130-02	.1023-01	6.960	46.25	575.7
348	.00000	.60000-01	8.0000	.2275	.1879	.2119	.1115-01	.9206-02	.1038-01	7.066	44.38	570.5
348	.00000	.70000-01	9.0000	.1969	.1624	.1846	.9648-02	.7959-02	.9048-02	6.083	41.72	573.7
348	.00000	.80000-01	10.000	.1549	.1281	.1462	.7592-02	.6275-02	.7165-02	4.840	33.31	566.7
348	.00000	.90000-01	11.000	.1452	.1202	.1376	.7114-02	.5889-02	.6743-02	4.574	28.86	561.3
348	.00000	.10000+00	12.000	.1305	.1081	.1242	.6397-02	.5296-02	.6087-02	4.116	24.57	560.8
348	.00000	.12000	14.000	.1204	.9980-01	.1152	.5901-02	.4892-02	.5646-02	3.828	21.19	555.6
348	.00000	.13000	15.000	.1120	.9280-01	.1073	.5487-02	.4547-02	.5259-02	3.551	20.69	557.0
348	.00000	.14000	16.000	.1034	.8570-01	.1060	.5038-02	.4199-02	.4863-02	3.275	20.70	558.0
348	.00000	.16000	18.000	.1102	.9130-01	.1060	.5401-02	.4472-02	.5193-02	3.477	21.34	560.5
348	.00000	.17000	19.000	.1059	.8770-01	.1019	.5190-02	.4295-02	.4996-02	3.333	21.03	561.9
348	.00000	.18000	20.000	.1045	.8640-01	.1006	.5119-02	.4235-02	.4932-02	3.283	20.70	563.0
348	.00000	.19000	21.000	.1050	.8700-01	.1013	.5147-02	.4262-02	.4966-02	3.317	20.95	559.7

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORREITER FUSELAGE

(RV1B33)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(OTO) BTU/ R FT2SEC	H(ITO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
348	.00000	.20000	22.000	.9850-01	.8150-01	.9510-01	.4827-02	.3994-02	.4662-02	3.096	19.52	562.8
348	.00000	.22500	23.000	.9380-01	.7760-01	.9080-01	.4594-02	.3903-02	.4450-02	2.952	18.63	561.6
348	.00000	.25000	801.00	.8900-01	.7370-01	.8640-01	.4364-02	.3611-02	.4233-02	2.801	17.66	562.4
348	.00000	.30000	802.00	.8280-01	.6850-01	.8040-01	.4060-02	.3358-02	.3938-02	2.598	16.37	564.2
348	.00000	.35000	803.00	.8800-01	.7270-01	.8540-01	.4315-02	.3563-02	.4184-02	2.735	17.13	570.3
348	.00000	.40000	804.00	.8580-01	.7080-01	.8320-01	.4204-02	.3469-02	.4076-02	2.653	17.13	573.1
348	.00000	.45000	805.00	.7870-01	.6430-01	.7630-01	.3859-02	.3179-02	.3741-02	2.416	16.04	578.1
348	.00000	.50000	806.00	.7440-01	.6130-01	.7210-01	.3647-02	.3003-02	.3535-02	2.274	15.54	580.8
348	.00000	.55000	807.00	.7670-01	.6310-01	.7440-01	.3760-02	.3192-02	.3644-02	2.330	16.95	584.6
348	.00000	.60000	808.00	.8150-01	.6690-01	.7690-01	.3992-02	.3281-02	.3868-02	2.464	17.91	587.1
348	.00000	.65000	809.00	.9590-01	.7860-01	.9280-01	.4697-02	.3852-02	.4549-02	2.866	20.76	594.0
348	.00000	.70000	810.00	.1287	.1054	.1245	.6308-02	.5164-02	.6108-02	3.808	28.44	600.6
348	.00000	.75000	811.00	.1742	.1424	.1685	.8538-02	.6976-02	.8264-02	5.104	36.74	606.4
348	.00000	.80000	812.00	.2196	.1791	.2125	.1076-01	.8777-02	.1041-01	5.104	36.74	606.4
348	.00000	.85000	813.00	.2278	.1857	.2230	.1116-01	.9101-02	.1092-01	6.589	48.88	614.1
348	.00000	.90000	814.00	.2188	.1783	.2143	.1072-01	.8762-02	.1053-01	6.406	44.62	606.9
348	.00000	.92500	815.00	.1830	.1498	.1802	.8970-02	.7342-02	.8830-02	5.414	44.05	604.2
348	.00000	.95000	816.00	.1871	.1530	.1847	.9169-02	.7497-02	.9049-02	5.501	44.05	604.2
348	.00000	.97500	817.00	.1950	.1601	.1943	.9605-02	.7844-02	.9505-02	5.723	45.73	608.4
348	.00000	1.0150	818.00	.3433	.2779	.3407	.1682-01	.1362-01	.1670-01	9.1576	67.99	635.0
348	.00000	1.0300	819.00	.3551	.2877	.3525	.1740-01	.1410-01	.1727-01	9.939	70.63	633.1
348	.00000	1.0600	821.00	.2886	.2332	.2864	.1414-01	.1143-01	.1403-01	7.959	63.77	641.4
348	10.000	.15000	89.000	.6500-02	.5400-02	.6500-02	.3177-03	.2646-03	.3177-03	.2120	1.281	537.0
348	11.500	.20000	91.000	.2510-01	.2090-01	.2510-01	.1232-02	.1026-02	.1232-02	.8190	5.079	539.7
348	14.000	.50000-01	90.000	.6100-02	.5100-02	.6100-02	.2973-03	.2477-03	.2973-03	.1990	1.200	536.4
348	17.500	.40000	823.00	.8480-01	.6990-01	.8220-01	.4158-02	.3423-02	.4030-02	2.594	20.26	580.4
348	17.500	.50000	824.00	.8070-01	.6630-01	.7820-01	.3953-02	.3249-02	.3830-02	2.440	19.00	587.1
348	17.500	.60000	825.00	.6160-01	.5060-01	.5970-01	.3019-02	.2478-02	.2925-02	1.848	16.08	592.1
348	17.500	.70000	826.00	.1022	.8860-01	.1048	.5304-02	.4344-02	.5136-02	3.212	23.21	598.6
348	17.500	.80000	827.00	.1755	.1434	.1699	.8602-02	.7029-02	.8327-02	5.142	37.01	606.5
348	17.500	.90000	828.00	.1830	.1495	.1797	.8970-02	.7332-02	.8804-02	5.374	41.48	605.1
348	20.000	.92500	971.00	.1419	.1161	.1418	.6950-02	.5689-02	.6950-02	4.138	30.30	600.5
348	20.000	.95000	975.00	.1362	.1120	.1362	.6673-02	.5483-02	.6673-02	4.138	30.30	600.5
348	20.000	.97500	980.00	.5140-01	.4270-01	.5140-01	.2520-02	.2091-02	.2520-02	1.645	12.17	584.1
348	24.000	.20000	93.000	.1390-01	.1150-01	.1390-01	.6789-03	.5654-03	.6789-03	.4520	2.807	538.1
348	30.000	.92500	970.00	.1211	.9940-01	.1211	.5936-02	.4870-02	.5936-02	3.627	26.28	593.2
348	30.000	.95000	974.00	.6200-01	.5130-01	.6200-01	.3039-02	.2516-02	.3039-02	1.957	14.41	560.4
348	30.000	.97500	979.00	.1030-01	.9000-02	.1090-01	.5323-03	.4424-03	.5323-03	.3500	2.600	545.9
348	32.000	.40000	.83100+10	.1026	.8460-01	.9950-01	.5030-02	.4146-02	.4876-02	3.159	21.64	576.2
348	32.000	.50000	832.00	.9160-01	.7530-01	.8880-01	.4491-02	.3692-02	.4352-02	2.776	19.54	586.0
348	32.000	.60000	833.00	.8510-01	.6990-01	.8250-01	.4171-02	.3424-02	.4041-02	2.557	16.86	591.3
348	32.000	.70000	834.00	.8500-01	.6950-01	.8230-01	.4164-02	.3412-02	.4033-02	2.527	18.90	597.4
348	32.000	.80000	835.00	.1175	.9530-01	.1138	.5757-02	.4717-02	.55	3.491	24.43	597.8

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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(RV1B33)

OH-498 (AEDC V41B-57A) OFB TER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TM DEG. R
348	32.000	.90000	836.00	.1499	.1228	.1471	.7344-02	.6020-02	.7211-02	4.488	32.34	595.8
348	32.000	.95000	837.00	.1657	.1358	.1635	.8118-02	.6656-02	.8014-02	4.945	37.03	595.1
348	32.000	.97500	838.00	.1827	.1495	.1806	.8951-02	.7326-02	.8860-02	5.397	41.74	601.2
348	32.000	1.0150	839.00	.3707	.2977	.3515	.1817-01	.1459-01	.1722-01	9.907	75.86	658.9
348	32.000	1.0300	840.00	.3940	.3172	.3736	.1931-01	.1554-01	.1832-01	10.67	79.13	651.4
348	32.000	1.0450	841.00	.4111	.3309	.3900	.2015-01	.1622-01	.1911-01	11.13	81.05	652.0
348	45.000	.92500	959.00	.8400-02	.7000-02	.8400-02	.4107-03	.3412-03	.4107-03	.2700	2.000	547.4
348	45.000	.95000	973.00	.2300-02	.1900-02	.2300-02	.1121-03	.9320-04	.1121-03	.7400-01	.5480	545.8
348	45.000	.97500	978.00	.1900-02	.1600-02	.1900-02	.9427-04	.7837-04	.9427-04	.6200-01	.4610	544.5
348	75.000	.97500	977.00	.9000-03	.8000-03	.9000-03	.4610-04	.3833-04	.4610-04	.3000-01	.2260	544.5
348	85.000	.97500	975.00	.2500-02	.2100-02	.2600-02	.1267-03	.1053-03	.1267-03	.8400-01	.6210	543.9
348	180.00	.10000-01	59.000	.1715	.1420	.1715	.8406-02	.6959-02	.8406-02	5.404	39.78	561.4
348	180.00	.25000-01	60.000	.4750-01	.3950-01	.4750-01	.2327-02	.1935-02	.2327-02	1.538	11.06	543.4
348	180.00	.50000-01	61.000	.1950-01	.1620-01	.1950-01	.9532-03	.7935-03	.9532-03	.6340	4.017	538.9
348	180.00	.75000-01	62.000	.1020-01	.8500-02	.1020-01	.5006-03	.4169-03	.5006-03	.3340	2.130	537.8
348	180.00	.10000+00	63.000	.9500-02	.7900-02	.9500-02	.4643-03	.3866-03	.4643-03	.3090	2.033	538.0
348	180.00	.12500	64.000	.1370-01	.1140-01	.1370-01	.6716-03	.5591-03	.6716-03	.4470	3.117	539.2
348	180.00	.15000	65.000	.2450-01	.2040-01	.2450-01	.1198-02	.9973-03	.1198-02	.7950	5.544	540.8
348	180.00	.16000	66.000	.7190-01	.5970-01	.7190-01	.3521-02	.2924-02	.3521-02	2.305	12.80	549.7
348	180.00	.17000	67.000	.1009	.8380-01	.1009	.4946-02	.4107-02	.4946-02	3.237	17.98	549.8
348	180.00	.20000	69.000	.1430-01	.1190-01	.1430-01	.7021-03	.5846-03	.7021-03	.4670	2.960	538.5
348	180.00	.40100	72.000	.1150-01	.9600-02	.1150-01	.5641-03	.4694-03	.5641-03	.3740	2.182	540.8
348	180.00	.50000	73.000	.9700-02	.8100-02	.9700-02	.4759-03	.3961-03	.4759-03	.3160	3.686	540.6
348	180.00	.60100	74.000	.8300-02	.6900-02	.8300-02	.4067-03	.3385-03	.4067-03	.2700	2.222	540.4
348	190.00	.70100	75.000	.6700-02	.5600-02	.6700-02	.3305-03	.2751-03	.3305-03	.2200	1.751	539.8



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1834)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 15.00 SPOBRK = .0000  
BDFLAP = 15.30 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	Y DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
368	7.980	2.004	40.10	.0000	180.0	428.7	.4500-01	1288.	93.70	1.990	3786.	.3995-04
369	7.980	2.022	40.08	.0000	180.0	429.9	.4500-01	1282.	93.30	1.995	3778.	.4023-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
368	.7548-07	.3459-01	0.0175
369	.7515-07	.3461-01	.2870-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(GTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DT/DT DEG. R /SEC	TH DEG. R
368	.00000	.00000	1.0000	.6027	.4942	.5380	.2084-01	.1709-01	.1861-01	12.23	67.13	572.4
368	.00000	.50000-02	2.0000	.7031	.5741	.5741	.2432-01	.1986-01	.1986-01	13.93	95.00	586.0
368	.00000	.10000-01	3.0000	.6277	.5136	.5197	.2171-01	.1776-01	.1797-01	12.59	83.51	579.1
368	.00000	.20000-01	4.0000	.4385	.3511	.3754	.1517-01	.1249-01	.1298-01	9.106	50.35	558.5
368	.00000	.30000-01	5.0000	.3400	.2804	.2961	.1176-01	.0997-02	.1024-01	7.118	39.45	553.7
368	.00000	.40000-01	6.0000	.2934	.2422	.2586	.1015-01	.0876-02	.0943-02	6.175	34.28	550.5
368	.00000	.50000-01	7.0000	.2803	.2307	.2487	.0694-02	.0797-02	.0800-02	5.801	38.84	560.6
368	.00000	.60000-01	8.0000	.2844	.2343	.2541	.0835-02	.0102-02	.0787-02	5.924	37.47	556.6
368	.00000	.70000-01	9.0000	.2490	.2049	.2238	.0611-02	.0708-02	.0740-02	5.157	35.62	560.1
368	.00000	.80000-01	10.000	.1975	.1628	.1786	.0832-02	.0630-02	.06176-02	4.119	28.50	556.1
368	.00000	.90000-01	11.000	.1892	.1561	.1718	.0544-02	.0399-02	.05941-02	3.972	25.18	552.0
368	.00000	.10000-00	12.000	.1756	.1449	.1600	.0674-02	.0510-02	.05534-02	3.685	22.10	552.2
368	.00000	.12000	14.000	.1626	.1343	.1490	.0624-02	.04644-02	.05152-02	3.433	19.08	548.5
368	.00000	.13000	15.000	.1590	.1312	.1458	.0597-02	.04538-02	.05043-02	3.350	19.59	549.6
368	.00000	.14000	16.000	.1457	.1203	.1338	.0540-02	.04159-02	.04629-02	3.066	19.45	550.6
368	.00000	.16000	18.000	.1491	.1229	.1371	.0515-02	.04252-02	.04743-02	3.125	19.26	552.7
368	.00000	.17000	19.000	.1499	.1236	.1380	.05183-02	.04274-02	.04774-02	3.136	19.86	554.0
368	.00000	.18000	20.000	.1476	.1217	.1361	.05105-02	.04208-02	.04705-02	3.085	19.53	554.7
368	.00000	.19000	21.000	.1417	.1169	.1308	.04901-02	.04044-02	.04525-02	2.977	18.87	551.6

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1834)

OH-49B (AEDC V41B-57A) CR81TER FUSELAGE

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT/SEC	H(1TO) BTU/ R FT/SEC	H(1TAN) BTU/ R FT/SEC	QDOT BTU/ SEC	DTWDT DEG. R /SEC	TW DEG. R
368	.00000	.20000	22.000	.1448	.1194	.1378	.5008-02	.4129-02	.4628-02	3.027	19.16	554.6
368	.00000	.22500	23.000	.1337	.1102	.1238	.4623-02	.3812-02	.4283-02	2.797	17.72	553.9
368	.00000	.25000	24.000	.1309	.1079	.1214	.4266-02	.3731-02	.4200-02	2.735	17.32	554.6
368	.00000	.30000	802.00	.1226	.1010	.1127	.4241-02	.3493-02	.3934-02	2.549	16.11	558.0
368	.00000	.35000	803.00	.1251	.1029	.1160	.4327-02	.3580-02	.4012-02	2.587	16.33	561.1
368	.00000	.40000	804.00	.1201	.9880-01	.1113	.4154-02	.3416-02	.3851-02	2.476	16.07	563.0
368	.00000	.45000	805.00	.1095	.9000-01	.1016	.3791-02	.3114-02	.3513-02	2.243	14.96	567.5
368	.00000	.50000	806.00	.9970-01	.8180-01	.9230-01	.3447-02	.2829-02	.3193-02	2.032	13.97	569.4
368	.00000	.55000	807.00	.9400-01	.7710-01	.8710-01	.3252-02	.2656-02	.3011-02	1.904	13.93	573.5
368	.00000	.60000	808.00	.8810-01	.7230-01	.8150-01	.3046-02	.2495-02	.2813-02	1.780	13.02	574.5
368	.00000	.65000	809.00	.8700-01	.7120-01	.8050-01	.3007-02	.2461-02	.2783-02	1.746	12.74	578.5
368	.00000	.70000	810.00	.9080-01	.7430-01	.8450-01	.3140-02	.2946-02	.3332-02	1.819	13.72	579.8
368	.00000	.75000	811.00	.1091	.8530-01	.9630-01	.4267-02	.3491-02	.3948-02	2.472	18.03	579.6
368	.00000	.80000	812.00	.1234	.1009	.1141	.4591-02	.3755-02	.4295-02	2.658	20.05	580.0
368	.00000	.85000	813.00	.1327	.1066	.1242	.4645-02	.3845-02	.4544-02	2.820	19.93	577.0
368	.00000	.90000	814.00	.1401	.1147	.1314	.4434-02	.3633-02	.4171-02	2.591	21.05	574.7
368	.00000	.92500	815.00	.1282	.1050	.1266	.4698-02	.3845-02	.4430-02	2.729	22.14	582.1
368	.00000	.95000	816.00	.1358	.1112	.1281	.5220-02	.4273-02	.4941-02	3.013	24.38	582.7
368	.00000	.97500	817.00	.1512	.1236	.1429	.1505-01	.1218-01	.1423-01	8.226	59.05	612.3
368	.00000	1.0150	818.00	.4351	.3521	.4113	.1642-01	.1330-01	.1553-01	9.018	64.81	609.9
368	.00000	1.0300	819.00	.4749	.3947	.4491	.1735-03	.1442-03	.1739-03	6.562	53.37	610.5
368	.00000	1.0500	820.00	.5000-02	.4200-02	.5000-02	.3022-03	.2506-03	.3022-03	1.890	1.178	532.9
368	.00000	1.0600	821.00	.8700-02	.7200-02	.8700-02	.3657-03	.3033-03	.3657-03	2.290	1.387	532.5
368	.00000	1.0800	822.00	.1060-01	.8300-02	.1050-01	.3924-02	.3221-02	.3635-02	2.316	18.20	568.8
368	.00000	1.1000	823.00	.1134	.9310-01	.1051	.3611-02	.2958-02	.3342-02	2.105	16.48	576.1
368	.00000	1.1200	824.00	.1044	.8550-01	.9660-01	.2429-02	.1938-02	.2247-02	1.411	12.36	578.0
368	.00000	1.1400	825.00	.7020-01	.5750-01	.6500-01	.3231-02	.2642-02	.2988-02	1.865	13.59	581.9
368	.00000	1.1600	826.00	.9340-01	.7640-01	.8640-01	.4045-02	.3310-02	.4092-02	2.346	17.11	579.2
368	.00000	1.1700	827.00	.1170	.9570-01	.1082	.4363-02	.3573-02	.3743-02	2.540	19.89	576.7
368	.00000	1.1800	828.00	.1261	.1033	.1183	.5884-02	.4817-02	.5684-02	3.422	24.99	577.3
368	.00000	1.1900	829.00	.1701	.1393	.1701	.5545-02	.4594-02	.5545-02	3.282	24.09	567.1
368	.00000	1.2000	830.00	.1603	.1317	.1603	.5545-02	.4594-02	.5545-02	3.282	24.09	567.1
368	.00000	1.2100	831.00	.5570-01	.4610-01	.5570-01	.3950-03	.3276-03	.3950-03	2.470	1.539	533.1
368	.00000	1.2200	832.00	.1140-01	.9500-02	.1140-01	.4871-02	.3992-02	.4871-02	2.818	20.63	574.2
368	.00000	1.2300	833.00	.1408	.1154	.1408	.2465-02	.2036-02	.2465-02	1.505	11.15	548.3
368	.00000	1.2400	834.00	.7130-01	.5850-01	.7130-01	.3861-03	.3201-03	.3861-03	2.410	1.798	534.8
368	.00000	1.2500	835.00	.1120-01	.9300-02	.1120-01	.4667-02	.3837-02	.4326-02	2.778	19.15	563.8
368	.00000	1.2600	836.00	.1350	.1109	.1251	.3851-02	.3157-02	.3566-02	2.253	15.95	573.9
368	.00000	1.2700	837.00	.1114	.9130-01	.1031	.3515-02	.2877-02	.3252-02	2.040	13.54	578.5
368	.00000	1.2800	838.00	.1016	.8320-01	.1031	.3515-02	.2877-02	.3252-02	2.040	13.54	578.5
368	.00000	1.2900	839.00	.1016	.8320-01	.1031	.3515-02	.2877-02	.3252-02	2.040	13.54	578.5
368	.00000	1.3000	840.00	.9020-01	.7370-01	.8300-01	.3738-02	.3059-02	.3458-02	2.167	15.30	579.2
368	.00000	1.3100	841.00	.1081	.8540-01	.1000-00						

AEDC VKF V41B-57A (OH-498) COLLATION DECK  
OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(GTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
368	32.000	.90000	836.00	.1206	.9890-01	.1132	.4172-02	.3420-02	.3915-02	2.442	17.86	573.8
368	32.000	.95000	837.00	.1672	.1370	.1577	.5784-02	.4737-02	.5455-02	3.370	25.47	576.4
368	32.000	.97500	838.00	.1945	.1590	.1838	.6725-02	.5498-02	.6356-02	3.878	30.27	582.4
368	32.000	1.0150	839.00	.4805	.3860	.4339	.1662-01	.1335-01	.1501-01	8.746	67.81	632.7
368	32.000	1.0300	840.00	.4411	.3566	.3996	.1525-01	.1233-01	.1382-01	8.299	62.62	615.0
368	32.000	1.0450	841.00	.4169	.3375	.3779	.1442-01	.1167-01	.1307-01	7.895	58.66	611.3
368	45.000	.92500	969.00	.1030-01	.8500-02	.1030-01	.3554-03	.2943-03	.3554-03	.2200	1.640	539.1
368	45.000	.95000	973.00	.1100-02	.9000-03	.1100-02	.3694-04	.3059-04	.3694-04	.2300-01	.1710	537.9
368	45.000	.97500	978.00	.1100-02	.9000-03	.1100-02	.3707-04	.3072-04	.3707-04	.2300-01	.1720	536.6
368	75.000	.97500	977.00	.2000-03	.1000-03	.2000-03	.5796-05	.4803-05	.5796-05	.4000-02	.2700-01	536.7
368	85.000	.97500	976.00	.9000-03	.8000-03	.9000-03	.3192-04	.2646-04	.3192-04	.2000-01	.1480	535.9
368	180.00	.10000-01	59.000	.1035	.8560-01	.1035	.3578-02	.2962-02	.3578-02	2.212	16.46	540.7
368	180.00	.25000-01	60.000	.2570-01	.2130-01	.2570-01	.8884-03	.7364-03	.8884-03	.5540	3.998	535.5
368	180.00	.50000-01	61.000	.1290-01	.1070-01	.1290-01	.4454-03	.3692-03	.4454-03	.2780	1.778	534.8
368	180.00	.75000-01	62.000	.1240-01	.1020-01	.1240-01	.4275-03	.3544-03	.4275-03	.2670	1.705	535.1
368	180.00	.10000-00	63.000	.2230-01	.1850-01	.2230-01	.7730-03	.6406-03	.7730-03	.4820	3.169	535.9
368	180.00	.12500	64.000	.2830-01	.2350-01	.2830-01	.9798-03	.8111-03	.9798-03	.6100	4.260	536.3
368	180.00	.15000	65.000	.3710-01	.3070-01	.3710-01	.1282-02	.1062-02	.1282-02	.7970	5.572	537.0
368	180.00	.16000	66.000	.9290-01	.7680-01	.9290-01	.3213-02	.2657-02	.3213-02	1.981	11.04	542.5
368	180.00	.17000	67.000	.1112	.9190-01	.1112	.3845-02	.3180-02	.3845-02	2.368	13.19	543.2
368	180.00	.20000	69.000	.1950-01	.1620-01	.1950-01	.6743-03	.5589-03	.6743-03	.4210	2.614	535.3
368	180.00	.40100	72.000	.5200-02	.4300-02	.5200-02	.1807-03	.1498-03	.1807-03	.1130	.9630	534.5
368	180.00	.50000	73.000	.5500-02	.4600-02	.5500-02	.1916-03	.1588-03	.1916-03	.1200	1.020	535.1
368	180.00	.60100	74.000	.5500-02	.4500-02	.5500-02	.1898-03	.1573-03	.1898-03	.1180	.9770	535.2
368	180.00	.70100	75.000	.4600-02	.3800-02	.4600-02	.1589-03	.1318-03	.1589-03	.9900-01	.7950	534.0

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B34)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 15.00 SPDRK = .0000  
BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
354	7.990	2.968	40.15	.0000	180.0	674.1	.7000-01	1337.	97.10	3.111	3858.	.6014-04
355	7.990	2.971	40.09	.0000	180.0	673.8	.7000-01	1336.	97.00	3.109	3856.	.6018-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR R =
354	LB-SEC /FT2		0.0175
354	.7819-07	.4353-01	.2357-01
355	.7810-07	.4351-01	.2356-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW) FT2SEC	H(19TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
354	.00000	.00000	1.0000	.5872	.4826	.5249	.2556-01	.2101-01	.2285-01	15.77	85.98	586.5
354	.00000	.50000-02	2.0000	.6951	.5681	.5681	.3026-01	.2473-01	.2473-01	18.10	122.2	605.4
354	.00000	.10000-01	3.0000	.6299	.5161	.5222	.2742-01	.2247-01	.2273-01	16.63	109.3	597.0
354	.00000	.20000-01	4.0000	.4241	.3503	.3639	.1846-01	.1525-01	.1584-01	11.71	64.43	568.9
354	.00000	.30000-01	5.0000	.3379	.2796	.2950	.1471-01	.1217-01	.1284-01	9.440	52.12	561.6
354	.00000	.40000-01	6.0000	.2871	.2379	.2536	.1250-01	.1035-01	.1104-01	8.075	44.68	557.3
354	.00000	.50000-01	7.0000	.2734	.2257	.2430	.1190-01	.9824-02	.1058-01	7.533	50.19	570.3
354	.00000	.60000-01	8.0000	.2824	.2335	.2528	.1229-01	.1016-01	.1101-01	7.848	49.43	565.1
354	.00000	.70000-01	9.0000	.2499	.2064	.2250	.1088-01	.8984-02	.9794-02	6.697	37.97	562.8
354	.00000	.80000-01	10.000	.1975	.1634	.1789	.8595-02	.7110-02	.7785-02	5.505	32.92	557.4
354	.00000	.90000-01	11.000	.1851	.1534	.1684	.8059-02	.6677-02	.7332-02	5.206	29.19	557.3
354	.00000	.10000+00	12.000	.1736	.1438	.1585	.7555-02	.6260-02	.6898-02	4.881	25.53	552.0
354	.00000	.12000	14.000	.1623	.1347	.1490	.7064-02	.5861-02	.6485-02	4.601	26.22	553.4
354	.00000	.13000	15.000	.1588	.1317	.1460	.6914-02	.5734-02	.6355-02	4.494	26.20	554.6
354	.00000	.14000	16.000	.1465	.1215	.1348	.6379-02	.5289-02	.5870-02	4.139	25.94	557.7
354	.00000	.16000	18.000	.1502	.1244	.1384	.6536-02	.5415-02	.6025-02	4.220	26.43	559.4
354	.00000	.17000	19.000	.1493	.1236	.1377	.6498-02	.5381-02	.5996-02	4.185	26.35	560.1
354	.00000	.18000	20.000	.1490	.1234	.1376	.6487-02	.5371-02	.5990-02	4.174	26.47	561.1
354	.00000	.19000	21.000	.1429	.1184	.1322	.6221-02	.5156-02	.5754-02	4.026	25.47	556.3

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AEDC VKF V418-57A (OH-498) COLLATION DECK

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(RV1834)

OH-498 (AEDC V418-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.3	H/HREF R=1.0	H/HREF (TAN)	H(OTO) BTU/R FT2SEC	H(TO) BTU/R FT2SEC	H(TAH) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTTOT DEG. R /SEC	TH DEG. R
354	.00000	.20000	22.000	.1429	.1183	.1322	.6218-02	.5149-02	.5756-02	4.003	25.28	559.7
354	.00000	.22500	23.000	.1361	.1127	.1263	.5925-02	.4908-02	.5499-02	3.823	24.16	558.1
354	.00000	.25000	801.00	.1305	.1081	.1213	.5680-02	.4704-02	.5280-02	3.666	23.12	559.0
354	.00000	.30000	802.00	.1211	.1003	.1126	.5273-02	.4365-02	.4901-02	3.388	21.38	561.0
354	.00000	.35000	803.00	.1290	.1066	.1198	.5616-02	.4640-02	.5215-02	3.571	22.46	567.5
354	.00000	.40000	804.00	.1219	.1006	.1131	.5304-02	.4379-02	.4924-02	3.356	21.70	570.7
354	.00000	.45000	805.00	.1144	.9430-01	.1061	.4979-02	.4106-02	.4620-02	3.133	20.83	574.1
354	.00000	.50000	806.00	.1016	.8380-01	.9430 01	.4425-02	.3646-02	.4105-02	2.772	18.98	576.9
354	.00000	.55000	807.00	.1012	.8330-01	.9390-01	.4407-02	.3626-02	.4086-02	2.736	19.93	582.5
354	.00000	.60000	808.00	.1092	.6980-01	.1012	.4753-02	.3909-02	.4406-02	2.940	21.39	584.8
354	.00000	.65000	809.00	.1590	.1303	.1471	.5919-02	.5670-02	.6404-02	4.200	30.39	596.4
354	.00000	.70000	810.00	.2537	.2087	.2363	.1113-01	.9084-02	.1299-01	6.601	49.07	610.4
354	.00000	.75000	811.00	.3210	.2615	.2954	.1397-01	.1138-01	.1290-01	8.205	58.78	616.2
354	.00000	.80000	812.00	.3386	.2757	.3126	.1474-01	.1200-01	.1361-01	8.630	61.78	618.0
354	.00000	.85000	813.00	.3217	.2619	.3003	.1400-01	.1307-01	.1307-01	8.197	60.70	618.0
354	.00000	.90000	814.00	.3035	.2476	.2842	.1321-01	.1078-01	.1237-01	7.812	54.28	612.1
354	.00000	.92500	815.00	.2646	.2162	.2486	.1152-01	.3411-02	.1082-01	6.875	54.99	606.6
354	.00000	.95000	816.00	.2696	.2198	.2696	.1174-01	.9566-02	.1105-01	6.917	55.13	614.0
354	.00000	.97500	817.00	.2872	.2334	.2709	.1250-01	.1016-01	.1175-01	7.259	57.61	622.7
354	.00000	1.0150	818.00	.4594	.3705	.4338	.2000-01	.1613-01	.1888-01	11.15	78.79	645.6
354	.00000	1.0300	819.00	.4250	.3437	.4016	.1850-01	.1496-01	.1748-01	10.46	74.16	637.9
354	.00000	1.0600	821.00	.3259	.2631	.3078	.1419-01	.1145-01	.1340-01	7.953	63.68	642.8
354	.00000	.15000	89.000	.5800-02	.4900-02	.5800-02	.2536-03	.2115-03	.2536-03	.1700	1.033	531.2
354	.11.500	.20000	91.000	.7900-02	.6600-02	.7900-02	.3453-03	.2882-03	.3453-03	.2330	1.454	528.3
354	.14.000	.50000-01	90.000	.1080-01	.9000-02	.1080-01	.4721-03	.3938-03	.4721-03	.3170	1.925	530.8
354	.17.500	.40000	823.00	.1108	.9130-01	.1028	.4824-02	.3973-02	.4474-02	3.011	23.54	579.2
354	.17.500	.50000	824.00	.1061	.8720-01	.9830-01	.4616-02	.3794-02	.4278-02	2.847	22.18	586.6
354	.17.500	.60000	825.00	.7890-01	.6480-01	.7310-01	.3433-02	.2819-02	.3180-02	2.106	18.35	589.8
354	.17.500	.70000	826.00	.3189	.2598	.2944	.1388-01	.1131-01	.1282-01	8.149	58.38	616.4
354	.17.500	.80000	827.00	.3351	.2730	.3094	.1459-01	.1188-01	.1347-01	8.569	61.40	616.0
354	.17.500	.90000	828.00	.2650	.2162	.2481	.1153-01	.9409-02	.1080-01	6.829	52.55	611.3
354	.20.000	.92500	971.00	.2419	.1974	.2419	.1053-01	.8593-02	.1053-01	6.249	44.91	609.9
354	.20.000	.95000	975.00	.1880	.1546	.1880	.8184-02	.6730-02	.8184-02	5.063	36.84	584.8
354	.20.000	.97500	980.00	.6590-01	.5470-01	.6590-01	.2855-02	.2380-02	.2855-02	1.880	13.93	547.4
354	.24.000	.20000	93.000	.1330-01	.1110-01	.1330-01	.5771-03	.4817-03	.5771-03	.3890	2.427	528.9
354	.30.000	.92500	970.00	.2091	.1710	.2091	.9100-02	.7443-02	.9100-02	5.466	39.42	602.7
354	.30.000	.95000	974.00	.8240-01	.6830-01	.9240-01	.3565-02	.2973-02	.3565-02	2.328	17.20	554.1
354	.30.000	.97500	979.00	.2390-01	.1980-01	.2390-01	.1038-02	.8637-03	.1038-02	2.680	5.118	540.6
354	.32.000	.40000	.83100+10	.1345	.1109	.1248	.5833-02	.4829-02	.5432-02	3.692	25.34	572.5
354	.32.000	.50000	832.00	.1089	.8960-01	.1089	.4740-02	.3890-02	.4393-02	2.934	20.67	584.3
354	.32.000	.60000	833.00	.1070	.8780-01	.9910-01	.4658-02	.3824-02	.4314-02	2.854	18.82	590.7
354	.32.000	.70000	834.00	.1380	.1130	.1277	.6007-02	.4919-02	.5558-02	3.629	27.12	599.3
354	.32.000	.80000	.35.00	.2421	.1979	.2238	.1054-01	.8612-02	.9743-02	6.298	43.89	605.8

AEDC VKF V41B-57A (OH-498) COLLATION DECK

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUM	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H1(OT) BTU/ R F12SEC	H1(TO) BTU/ R F12SEC	H1(TAW) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTMDT DEG. R /SEC	TW DEG. R
354	32.000	.90000	836.00	.2768	.2261	.2594	.1205-01	.9840-02	.1129-01	7.173	51.59	608.2
354	32.000	.95000	837.00	.2748	.2244	.2589	.1196-01	.9766-02	.1127-01	7.102	52.86	609.3
354	32.000	.97500	839.00	.2954	.2405	.2788	.1286-01	.1047-01	.1214-01	7.528	57.74	618.0
354	32.000	1.0150	839.00	.4821	.3853	.4341	.2099-01	.1677-01	.1890-01	10.17	85.02	671.2
354	32.000	1.0300	840.00	.4308	.3469	.3894	.1875-01	.1510-01	.1695-01	10.37	76.93	650.4
354	32.000	1.0450	841.00	.4168	.3361	.3770	.1814-01	.1463-01	.1641-01	10.10	73.77	646.7
354	45.000	.92500	969.00	.1330-01	.1110-01	.1330-01	.5801-03	.4829-03	.5801-03	3.850	2.867	539.5
354	45.000	.95000	973.00	.2500-02	.2100-02	.2500-02	.1087-03	.9054-04	.1087-03	7.200-01	.5400	537.1
354	45.000	.97500	978.00	.1600-02	.1300-02	.1600-02	.6996-04	.5829-04	.6996-04	4.700-01	.3480	535.9
354	75.000	.97500	977.00	.2000-03	.1000-03	.2000-03	.6811-05	.5675-05	.6811-05	5.000-02	.3400-01	535.4
354	85.000	.97500	975.00	.1200-02	.1000-02	.1200-02	.5360-04	.4467-04	.5360-04	3.600-01	.2680	534.2
354	180.00	.10000-01	531.00	.5970-01	.6290-01	.5970-01	.4340-02	.3608-02	.4340-02	2.862	21.25	544.0
354	180.00	.25000-01	60.000	.2470-01	.2060-01	.2470-01	.1077-02	.8974-03	.1077-02	7.190	5.185	536.3
354	180.00	.50000-01	61.000	.1220-01	.1020-01	.1220-01	.5309-03	.4425-03	.5309-03	3.500	2.273	534.1
354	180.00	.75000-01	62.000	.2510-01	.2090-01	.2510-01	.6181-03	.5152-03	.6181-03	4.140	2.649	533.6
354	180.00	.10000+00	63.000	.2980-01	.2480-01	.2980-01	.1295-02	.1091-02	.1295-02	7.300	4.609	534.9
354	180.00	.12500	64.000	.3720-01	.100-01	.3720-01	.1621-02	.1351-02	.1621-02	8.660	6.062	534.6
354	180.00	.15000	65.000	.9160-01	.7620-01	.9160-01	.3987-02	.3316-02	.3987-02	1.084	7.584	541.8
354	191.00	.17000	67.000	.1155	.9610-01	.1155	.5026-02	.4181-02	.5026-02	3.327	14.71	541.3
354	180.00	.20000	69.000	.1680-01	.1400-01	.1680-01	.7304-03	.6093-03	.7304-03	4.920	18.56	530.4
354	180.00	.19100	72.000	.6100-02	.5100-02	.6100-02	.2652-03	.2212-03	.2652-03	3.420	3.063	530.0
354	180.00	.50000	73.000	.7500-02	.6300-02	.7500-02	.3284-03	.2733-03	.3284-03	1.790	1.528	531.6
354	180.00	.60100	74.000	.6100-02	.5100-02	.6100-02	.2668-03	.2225-03	.2668-03	1.790	1.887	531.5
354	180.00	.70100	75.000	.4000-02	.3400-02	.4000-02	.1759-03	.1467-03	.1759-03	.1180	.9480	530.9

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49P) COLLAT'ON DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1834)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 15.00 SPOBRK = .0000  
BDFLAP = 15.00 MACH = 8.0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
350	8.000	3.778	40.08	.0000	180.0	859.0	.8800-01	1330.	96.70	3.942	3855.	.7632-04
351	8.000	3.777	40.11	.0000	180.0	860.8	.8800-01	1337.	96.90	3.950	3858.	.7636-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
350	.7787-07		0.0175
351	.7800-07		.2092-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C R3	H/HREF R=0.9	H/HREF R=1.0	H/HREF (T/A)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
350	.07000	.0000	1.0000	.5958	.4884	.5317	.2919-01	.2393-01	.2605-01	17.72	96.25	594.2
350	.00000	.5000-02	2.0000	.6943	.5655	.5655	.3401-01	.2770-01	.2770-01	19.54	134.0	615.1
350	.00000	.1000-01	3.0000	.6206	.5070	.512	.3040-01	.2483-01	.2513-01	18.11	118.5	605.8
350	.00000	.2000-01	4.0000	.4358	.3592	.3735	.2135-01	.1760-01	.1829-01	13.37	73.32	575.0
350	.00000	.3000-01	5.0000	.3362	.2778	.2933	.1647-01	.1361-01	.1436-01	10.45	57.52	567.0
350	.00000	.4000-01	6.0000	.2853	.2360	.2518	.1397-01	.1156-01	.1233-01	8.932	49.30	562.1
350	.00000	.5000-01	7.0000	.2743	.2260	.2435	.1344-01	.1107-01	.1193-01	3.386	55.68	577.2
350	.00000	.6000-01	8.0000	.2817	.2324	.2519	.1380-01	.1138-01	.1234-01	8.685	54.52	571.8
350	.00000	.7000-01	9.0000	.2445	.2014	.2199	.1197-01	.9865-02	.1077-01	7.476	51.19	577.0
350	.00000	.8000-01	10.000	.2009	.1658	.1818	.9841-02	.8124-02	.8906-02	6.212	42.68	570.1
350	.00000	.9000-01	11.000	.1894	.1566	.1722	.9277-02	.7671-02	.8433-02	5.913	37.26	564.0
350	.00000	.1000+00	12.000	.1785	.1476	.1629	.8746-02	.7231-02	.7978-02	5.573	33.22	564.1
350	.00000	.12000	14.000	.1625	.1345	.1490	.7959-02	.6591-02	.7301-02	5.116	28.29	558.5
350	.00000	.13000	15.000	.1545	.1279	.1419	.7568-02	.6264-02	.6952-02	4.852	28.20	560.2
350	.00000	.14000	16.000	.1433	.1185	.1318	.7019-02	.5807-02	.6454-02	4.489	28.32	561.8
350	.00000	.16000	18.000	.1522	.1258	.1402	.7456-02	.6163-02	.6867-02	4.741	29.03	565.4
350	.00000	.17000	19.000	.1490	.1231	.1374	.7299-02	.6029-02	.6728-02	4.625	29.09	567.6
350	.00000	.18000	20.000	.1523	.1257	.1405	.7459-02	.6159-02	.6881-02	4.718	29.66	568.7
350	.00000	.19000	21.000	.1460	.1207	.1350	.7154-02	.5914-02	.6611-02	4.555	28.69	564.6

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1834)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H1(9TO) BTU/ R FT2SEC	H1(10) BTU/ R FT2SEC	H1(TAN) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	OTWDT DEG. R /SEC	TW DEG. R
350	.00000	.20000	22.000	.1431	.1182	.1324	.7010-02	.5789-02	.6483-02	4.434	27.88	568.8
350	.00000	.22500	23.000	.1318	.1099	.1222	.6454-02	.5332-02	.5985-02	4.092	25.75	567.3
350	.00000	.25000	801.00	.1298	.1072	.1205	.6358-02	.5250-02	.5905-02	4.022	25.29	568.7
350	.00000	.30000	802.00	.1211	.9990-01	.1124	.5933-02	.4895-02	.5508-02	3.739	23.48	571.1
350	.00000	.35000	803.00	.1283	.1075	.1190	.5284-02	.4174-02	.5829-02	3.911	24.46	578.9
350	.00030	.40000	804.00	.1246	.1025	.1155	.5104-02	.4021-02	.5660-02	3.778	24.28	582.4
350	.00000	.45000	805.00	.1114	.9150-01	.1033	.5458-02	.4484-02	.5058-02	3.356	22.18	586.5
350	.00000	.50000	806.00	.1031	.8470-01	.9560-01	.5052-02	.4147-02	.4681-02	3.088	21.01	590.1
350	.00000	.55000	807.00	.1081	.8950-01	.1001	.5296-02	.4337-02	.4902-02	3.199	23.13	597.3
350	.00000	.60000	808.00	.1334	.1091	.1234	.6533-02	.5344-02	.6044-02	3.920	28.29	601.3
350	.00000	.65000	809.00	.1082	.1594	.1922	.1020-01	.8293-02	.9412-02	5.941	42.51	618.7
350	.00000	.70000	810.00	.3099	.2508	.2854	.1518-01	.1228-01	.1391-01	8.595	63.12	635.1
350	.00000	.75000	811.00	.3516	.2821	.3369	.1771-01	.1431-01	.1630-01	10.05	71.12	641.1
350	.00000	.80000	812.00	.3661	.2957	.3369	.1793-01	.1448-01	.1650-01	10.45	79.45	641.1
350	.00000	.85000	813.00	.3456	.2791	.3219	.1693-01	.1367-01	.1577-01	9.485	62.99	633.7
350	.00000	.90000	814.00	.3295	.2668	.3072	.1614-01	.1307-01	.1508-01	9.162	62.10	626.9
350	.00000	.92500	815.00	.2831	.2297	.2655	.1387-01	.1125-01	.1300-01	7.967	63.10	634.1
350	.00000	.95000	816.00	.2855	.2311	.2682	.1312-01	.1132-01	.1311-01	7.932	62.60	642.8
350	.00000	.97500	817.00	.3598	.2501	.2917	.1518-01	.1225-01	.1429-01	8.477	66.62	652.3
350	.00000	1.0150	818.00	.4678	.3749	.4411	.2231-01	.1837-01	.2161-01	12.35	86.54	665.2
350	.00000	1.0300	819.00	.4106	.3541	.4159	.2159-01	.1734-01	.2037-01	11.79	82.88	659.6
350	.00000	1.0600	821.00	.2102	.2682	.3153	.1637-01	.1314-01	.1544-01	8.870	70.46	655.2
350	.00000	1.5000	89.000	.5500-02	.4900-02	.5900-02	.2884-03	.2402-03	.2884-03	.1920	1.160	536.2
350	.00000	2.0000	91.000	.8300-02	.6900-02	.8300-02	.4068-03	.3388-03	.4068-03	.2710	1.682	535.9
350	.00000	5.0000-01	90.000	.1280-01	.1070-01	.1280-01	.6287-03	.5237-03	.6287-03	.4160	2.530	535.8
350	.00000	8.0000	823.00	.1110	.9110-01	.1029	.5436-02	.4460-02	.5036-02	3.316	25.77	591.4
350	.00000	10.000	824.00	.1058	.8950-01	.9790-01	.5180-02	.4239-02	.4793-02	3.114	24.10	600.2
350	.00000	15.000	825.00	.1000+00	.8170-01	.9250-01	.4898-02	.4001-02	.4529-02	2.917	25.20	605.9
350	.00000	17.500	826.00	.3703	.2990	.3409	.1814-01	.1465-01	.1669-01	10.16	71.91	641.2
350	.00000	17.500	827.00	.3546	.2867	.3265	.1737-01	.1404-01	.1599-01	9.791	69.42	637.7
350	.00000	17.500	828.00	.2869	.2321	.2682	.1406-01	.1139-01	.1314-01	8.001	60.95	632.1
350	.00000	17.500	971.00	.2644	.2140	.2644	.1295-01	.1048-01	.1295-01	7.344	52.16	634.3
350	.00000	17.500	975.00	.2071	.1594	.2071	.1014-01	.8300-02	.1014-01	6.099	44.04	600.1
350	.00000	17.500	980.00	.6850-01	.5680-01	.6853-01	.3356-02	.2783-02	.3356-02	2.178	16.10	552.4
350	.00000	20.000	93.000	.1340-01	.1110-01	.1343-01	.6542-03	.5448-03	.6542-03	4.350	2.703	536.3
350	.00000	20.000	970.00	.2447	.1988	.2447	.1199-01	.9740-02	.1199-01	6.939	49.56	622.4
350	.00000	30.000	974.00	.9020-01	.7460-01	.9021-01	.4417-02	.3653-02	.4417-02	2.817	20.72	563.5
350	.00000	30.000	979.00	.2760-01	.2290-01	.2763-01	.1350-02	.1123-02	.1350-02	4.068	6.596	543.7
350	.00000	30.000	979.00	.1344	.1105	.1245	.6582-02	.5413-02	.6103-02	3.205	27.77	583.3
350	.00000	30.000	832.00+10	.1081	.8860-01	.1001	.5296-02	.4339-02	.4902-02	3.736	24.46	595.2
350	.00000	30.000	833.00	.1280	.1346	.1184	.6272-02	.5124-02	.5799-02	5.369	39.65	605.7
350	.00000	30.000	834.00	.1897	.1541	.1750	.9294-02	.7550-02	.8573-02	9.018	62.01	623.7
350	.00000	30.000	335.00	.3241	.2624	.2985	.1587-01	.1285-01	.1462-01	9.018	62.01	633.2



AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
350	32.000	.90000	836.00	.2976	.2414	.2782	.1458-01	.1182-01	.1363-01	8.357	59.53	628.0
350	32.000	.95000	837.00	.3100	.2515	.2915	.1519-01	.1232-01	.1428-01	8.714	64.23	627.5
350	32.000	.97500	838.00	.3076	.2488	.2898	.1507-01	.1219-01	.1419-01	8.504	64.63	636.9
350	32.000	1.0150	839.00	.4957	.3930	.4448	.2428-01	.1925-01	.2179-01	12.40	93.52	690.7
350	32.000	1.0300	940.00	.4420	.3533	.3982	.2165-01	.1731-01	.1950-01	11.52	84.71	669.1
350	32.000	1.0450	841.00	.4297	.3432	.3855	.2100-01	.1681-01	.1893-01	11.23	81.41	665.6
350	45.000	.92500	959.00	.1490-01	.1240-01	.1490-01	.7285-03	.6051-03	.7285-03	.4770	3.536	546.8
350	45.000	.95000	973.00	.3370-02	.2800-02	.3300-02	.1622-03	.1348-03	.1622-03	.1060	.7890	545.6
350	45.000	.97500	978.00	.2003-02	.1700-02	.2000-02	.9753-04	.8107-04	.9753-04	.6400-01	.4760	543.9
350	75.000	.97500	977.00	.3000-03	.2000-03	.3000-03	.1419-04	.1180-04	.1419-04	.9000-02	.6900-01	543.4
350	85.000	.97500	976.00	.1400-02	.1200-02	.1400-02	.6978-04	.5803-04	.6978-04	.4600-01	.3420	542.2
350	180.00	.10000-01	59.000	.9910-01	.8230-01	.9910-01	.4853-02	.4031-02	.4853-02	3.175	23.54	547.1
350	180.00	.25000-01	60.000	.2440-01	.2030-01	.2440-01	.1196-02	.9954-03	.1196-02	.7920	5.706	539.1
350	180.00	.50000-01	61.000	.1270-01	.1060-01	.1270-01	.6211-03	.5171-03	.6211-03	.4120	2.633	537.6
350	180.00	.75000-01	62.000	.1510-01	.1260-01	.1510-01	.7391-03	.6153-03	.7391-03	.4900	3.129	538.2
350	180.00	.10000+00	63.000	.2550-01	.2150-01	.2550-01	.1266-02	.1054-02	.1266-02	.8380	5.501	539.8
350	180.00	.12500	64.000	.2990-01	.2490-01	.2990-01	.1465-02	.1219-02	.1465-02	.9680	6.752	540.7
350	180.00	.15000	65.000	.3470-01	.2890-01	.3470-01	.1702-02	.1415-02	.1702-02	1.123	7.828	541.4
350	180.00	.16000	66.000	.9010-01	.7470-01	.9010-01	.4411-02	.3661-02	.4411-02	2.874	15.96	549.8
350	180.00	.17000	67.000	.1159	.9700-01	.1159	.5725-02	.4752-02	.5725-02	3.730	20.72	549.8
350	180.00	.20000	69.000	.1620-01	.1350-01	.1620-01	.7943-03	.6612-03	.7943-03	.5270	3.271	538.0
350	180.00	.40100	72.000	.6900-02	.5700-02	.6900-02	.3358-03	.2795-03	.3358-03	.2230	1.898	537.7
350	180.00	.50000	73.000	.8300-02	.6900-02	.8300-02	.4059-03	.3378-03	.4059-03	.2690	2.289	538.9
350	180.00	.60100	74.000	.7200-02	.6000-02	.7200-02	.3539-03	.2945-03	.3539-03	.2340	1.929	539.5
350	180.00	.70100	75.000	.4900-02	.4000-02	.4900-02	.2381-03	.1982-03	.2381-03	.1580	1.260	538.6

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1835)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = 15.00 SPOBRK = 40.00  
BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEC.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
380	7.900	.5395	19.99	.0000	180.0	111.7	.1200-01	1283.	95.10	.5420	3775.	.1094-04
381	7.900	.5379	20.02	.0000	180.0	111.3	.1200-01	1282.	95.10	.5400	3775.	.1091-04

RUN NUMBER	MU	HREF BTU/ R /FT2	ST FR R =
380	.7660-07	.1804-01	0.0175
381	.7657-07	.1801-01	.5511-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(910) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
380	.00000	.00000	1.0000	.9124	.7454	.7624	.1646-01	.1345-01	.1376-01	9.423	51.49	582.1
380	.00000	.50000-02	2.0000	.7450	.6089	.6229	.1344-01	.1099-01	.1124-01	7.716	52.75	580.4
380	.00000	.10000-01	3.0000	.5444	.4467	.4762	.9822-02	.8059-02	.6591-02	5.761	38.43	567.9
380	.00000	.20000-01	4.0000	.3194	.2634	.2941	.5763-02	.4753-02	.5307-02	3.477	19.30	551.1
380	.00000	.30000-01	5.0000	.2341	.1932	.2206	.4224-02	.3486-02	.3979-02	2.560	14.23	548.5
380	.00000	.40000-01	6.0000	.1877	.1550	.1795	.3387-02	.2797-02	.3238-02	2.061	11.47	546.0
380	.00000	.50000-01	7.0000	.1637	.1351	.1581	.2954-02	.2437-02	.2853-02	1.787	12.03	539.5
380	.00000	.60000-01	8.0000	.1649	.1302	.1605	.2976-02	.2457-02	.2896-02	1.807	11.48	547.3
380	.00000	.70000-01	9.0000	.1397	.1153	.1370	.2520-02	.2081-02	.2471-02	1.529	10.63	547.7
380	.00000	.80000-01	10.000	.1071	.8850-01	.1056	.1932-02	.1596-02	.1905-02	1.177	8.185	545.5
380	.00000	.90000-01	11.000	.9950-01	.8230-01	.9850-01	.1797-02	.1485-02	.1779-02	1.096	6.978	544.4
380	.00000	.10000*00	12.000	.8910-01	.7370-01	.8860-01	.1608-02	.1329-02	.1598-02	.9820	5.915	543.7
380	.00000	.12000	14.000	.7820-01	.6470-01	.7820-01	.1412-02	.1167-02	.1410-02	.8650	4.821	541.9
380	.00000	.13000	15.000	.7190-01	.5340-01	.7190-01	.1297-02	.1072-02	.1298-02	.7940	4.661	542.2
380	.00000	.14000	16.000	.6570-01	.5420-01	.6580-01	.1185-02	.9793-03	.1187-02	.7250	4.622	542.4
380	.00000	.16000	18.000	.6550-01	.5420-01	.6580-01	.1182-02	.9774-03	.1187-02	.7230	4.480	542.6
380	.00000	.17000	19.000	.6520-01	.5390-01	.6560-01	.1177-02	.9726-03	.1183-02	.7190	4.582	543.0
380	.00000	.18000	20.000	.6320-01	.5230-01	.6360-01	.1141-02	.9433-03	.1148-02	.6980	4.446	542.8
380	.00000	.19000	21.000	.5960-01	.4930-01	.6000-01	.1075-02	.8892-03	.1083-02	.5590	4.201	541.4

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## AEDC VKF V41B-57A (OH-49B) COLLATION DECK

## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THET/	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	4/HREF (TAN)	H(GTO) BTU/ R FT/SEC	H(TO) BTU/ R FT/SEC	H(TAM) BTU/ R FT/SEC	QDOT BTU/ FT/SEC	DTWOT DEG. R /SEC	TN DEG. R
380	.00000	.20000	22.000	.6140-01	.5080-01	.6190-01	.1108-02	.9159-03	.1117-02	.6780	4.316	542.8
380	.00000	.22500	23.000	.5550-01	.4990-01	.5610-01	.1001-02	.8273-03	.1012-02	.6120	3.898	542.9
380	.00000	.25000	801.00	.5390-01	.4460-01	.5460-01	.9728-03	.8041-03	.9850-03	.5950	3.789	542.8
380	.00000	.30000	802.00	.4710-01	.3900-01	.4770-01	.8504-03	.7030-03	.8611-03	.5200	3.313	542.9
380	.00000	.35000	803.00	.4830-01	.3990-01	.4890-01	.8710-03	.7199-03	.8820-03	.5320	3.387	543.6
380	.00000	.40000	804.00	.4760-01	.3930-01	.4820-01	.8593-03	.7093-03	.8691-03	.5240	3.434	543.9
380	.00000	.45000	805.00	.4200-01	.3470-01	.4250-01	.7572-03	.6257-03	.7668-03	.4620	3.117	544.5
380	.00000	.50000	806.00	.3800-01	.3190-01	.3910-01	.6974-03	.5762-03	.7063-03	.4250	2.960	544.7
380	.00000	.55000	807.00	.3900-01	.3140-01	.3840-01	.6950-03	.5558-03	.6937-03	.4170	3.095	545.5
380	.00000	.60000	808.00	.3420-01	.2830-01	.3470-01	.6174-03	.5100-03	.6253-03	.3760	2.791	545.4
380	.00000	.65000	809.00	.3230-01	.2670-01	.3270-01	.5832-03	.4816-03	.5905-03	.3550	2.631	546.2
380	.00000	.70000	810.00	.3110-01	.2570-01	.3150-01	.5614-03	.4636-03	.5685-03	.3420	2.622	545.9
380	.00000	.75000	811.00	.2960-01	.2440-01	.3000-01	.5338-03	.4408-03	.5405-03	.3250	2.410	545.9
380	.00000	.80000	812.00	.2820-01	.2330-01	.2880-01	.5093-03	.4207-03	.5157-03	.3100	2.302	545.3
380	.00000	.85000	813.00	.3000-01	.2480-01	.2670-01	.5412-03	.4472-03	.5536-03	.3300	2.536	544.4
380	.00000	.90000	814.00	.2600-01	.2150-01	.2670-01	.4696-03	.3881-03	.4812-03	.2870	2.064	543.1
380	.00000	.92500	815.00	.2060-01	.1710-01	.2120-01	.3724-03	.3079-03	.3825-03	.2280	1.883	542.4
380	.00000	.95000	816.00	.1650-01	.1370-01	.1700-01	.2985-03	.2468-03	.3072-03	.1830	1.510	541.8
380	.00000	.97500	817.00	.1540-01	.1290-01	.1590-01	.2786-03	.2304-03	.2875-03	.1710	1.409	542.1
380	.00000	1.0150	818.00	.7500-02	.6200-02	.7700-02	.1348-03	.1116-03	.1394-03	.8300-01	.6170	539.4
380	.00000	1.0300	819.00	.8900-02	.7300-02	.9200-02	.1597-03	.1321-03	.1651-03	.9800-01	.7320	535.0
380	.00000	1.0600	821.00	.1090-01	.9000-02	.1120-01	.1961-03	.1623-03	.2028-03	.1210	1.019	538.3
380	10.000	1.5000	89.000	.1870-01	.1550-01	.1870-01	.3382-03	.2799-03	.3382-03	.2080	1.257	538.7
380	11.500	.20000	91.000	.3040-01	.2510-01	.3040-01	.5482-03	.4536-03	.5482-03	.3370	2.093	539.1
380	14.000	.50000-01	90.000	.1590-01	.1310-01	.1590-01	.2865-03	.2372-03	.2665-03	.1770	1.069	537.0
380	17.500	.50000	823.00	.5000-01	.4130-01	.5050-01	.9014-03	.7445-03	.9128-03	.5490	4.362	545.7
380	17.500	.50000	824.00	.1800-01	.3950-01	.4850-01	.8661-03	.7151-03	.8770-03	.5260	4.181	546.9
380	17.500	.60000	825.00	.3330-01	.2750-01	.3380-01	.6017-03	.4958-03	.6093-03	.3650	3.252	547.0
380	17.500	.70000	826.00	.3550-01	.2930-01	.3600-01	.6409-03	.5291-03	.6490-03	.3890	2.884	547.5
380	17.500	.80000	827.00	.3400-01	.2810-01	.3440-01	.6137-03	.5069-03	.6215-03	.3730	2.771	545.9
380	20.000	.90000	828.00	.2490-01	.2060-01	.2550-01	.4488-03	.3709-03	.4599-03	.2740	2.183	543.5
380	20.000	.92500	971.00	.2470-01	.2040-01	.2470-01	.4447-03	.3678-03	.4447-03	.2730	2.029	541.0
380	20.000	.95000	975.00	.6170-01	.5100-01	.6170-01	.1114-02	.9205-03	.1114-02	.6800	5.046	544.4
380	20.000	.97500	980.00	.3070-01	.2540-01	.3070-01	.5532-03	.4577-03	.5532-03	.3400	2.533	539.3
380	24.000	.20000	93.000	.3120-01	.2560-01	.3120-01	.5634-03	.4662-03	.5634-03	.3470	2.151	539.1
380	30.000	.92500	970.00	.1190-01	.9800-02	.1190-01	.2138-03	.1769-03	.2138-03	.1310	.9790	539.6
380	30.000	.95000	974.00	.1830-01	.2210-01	.2210-01	.3983-03	.3295-03	.3983-03	.2450	1.820	540.2
380	30.000	.97500	979.00	.6900-02	.5700-02	.6900-02	.1252-03	.1037-03	.1252-03	.7800-01	.5780	535.0
380	32.000	.40000	.83100+10	.7120-01	.5880-01	.7210-01	.1285-02	.1061-02	.1301-02	.7820	5.437	546.1
380	32.000	.50000	832.00	.6010-01	.4960-01	.6080-01	.1084-03	.8948-03	.1098-02	.6580	4.718	547.8
380	32.000	.60000	833.00	.5290-01	.4370-01	.5360-01	.9547-03	.7879-03	.9668-03	.5790	3.898	548.3
380	32.000	.70000	834.00	.3180-01	.2620-01	.3220-01	.5737-03	.4733-03	.5810-03	.3470	2.659	549.5
380	32.000	.80000	835.00	.3360-01	.2770-01	.3400-01	.6058-03	.5003-03	.6135-03	.3680	2.645	546.2

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H13TO1 BTU/ R FT2SEC	H1TO1 BTU/ R FT2SEC	H1TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
380	32.000	.90000	836.00	.2020-01	.1670-01	.2070-01	.3644-03	.3012-03	.3734-03	.2230	1.654	543.5
380	32.000	.95000	837.00	.3230-01	.2670-01	.3330-01	.5836-03	.4824-03	.6008-03	.3570	2.741	543.2
380	32.000	.97500	838.00	.2080-01	.1720-01	.2140-01	.3747-03	.3198-03	.3865-03	.2290	1.826	542.5
380	32.000	1.0150	839.00	.2090-01	.1730-01	.2090-01	.3780-03	.3126-03	.3772-03	.2320	1.882	540.8
380	32.000	1.0300	840.00	.2210-01	.1830-01	.2700-01	.3994-03	.3295-03	.3976-03	.2440	1.914	540.8
380	32.000	1.0450	841.00	.2100-01	.1740-01	.2030-01	.3785-03	.3131-03	.3777-03	.2320	1.788	540.6
380	45.000	.92500	959.00	.1000-02	.8000-03	.1000-02	.1844-04	.1527-04	.1844-04	.1100-01	.8500-01	537.7
380	45.000	.95000	973.00	.1100-02	.9000-03	.1100-02	.1904-04	.1576-04	.1904-04	.1200-01	.8800-01	537.4
380	45.000	.97500	978.00	.1900-02	.1600-02	.1900-02	.7454-04	.2859-04	.3454-04	.2100-01	.1590	537.3
390	75.000	.97500	977.00	.2400-02	.2000-02	.2400-02	.4276-04	.3540-04	.4276-04	.2600-01	.1970	537.4
380	95.000	.97500	976.00	.4700-02	.3300-02	.4700-02	.8955-04	.7082-04	.8555-04	.5300-01	.3930	537.7
380	180.00	.10000-01	59.000	.2870	.2365	.2870	.5179-02	.4268-02	.5179-02	3.111	22.99	553.7
380	180.00	.25000-01	60.000	.9530-01	.7880-01	.9530-01	.1719-02	.1421-02	.1719-02	1.050	7.547	543.7
380	180.00	.50000-01	61.000	.4720-01	.3910-01	.4720-01	.8522-03	.7050-03	.8522-03	.5240	3.340	540.1
380	180.00	.75000-01	62.000	.2530-01	.2100-01	.2530-01	.4563-03	.3781-03	.4569-03	.2810	1.795	539.0
380	180.00	.10000+00	63.000	.1620-01	.1340-01	.1620-01	.2931-03	.2426-03	.2931-03	.1810	1.186	538.4
380	180.00	.12500	64.000	.1130-01	.9400-02	.1130-01	.2041-03	.1689-03	.2041-03	.1260	.8780	538.4
380	180.00	.15000	65.000	.7400-02	.6100-02	.7400-02	.1328-03	.1099-03	.1328-03	.8200-01	.5720	537.8
380	180.00	.16000	66.000	.1690-01	.1400-01	.1690-01	.3046-03	.2521-03	.3046-03	.1870	1.046	539.2
380	180.00	.17000	67.000	.5950-01	.4920-01	.5950-01	.1074-02	.8883-03	.1074-02	.6580	3.669	541.9
380	180.00	.20000	69.000	.1980-01	.1640-01	.1980-01	.3567-03	.2952-03	.3567-03	.2200	1.762	538.9
380	180.00	.43100	72.000	.5100-02	.4200-02	.5100-02	.9175-04	.7594-04	.9175-04	.5700-01	.4820	538.0
380	180.00	.50000	73.000	.7100-02	.5900-02	.7100-02	.1278-03	.1058-03	.1278-03	.7900-01	.6700	538.9
380	180.00	.60100	74.000	.8400-02	.7000-02	.8400-02	.1524-03	.1261-03	.1524-03	.9400-01	.7730	539.0
380	180.00	.70100	75.000	.7300-02	.6100-02	.7300-02	.1320-03	.1092-03	.1320-03	.8100-01	.6490	538.4

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FUSELAGE

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## PARAMETRIC DATA

ALPHA = 23.00 BETA = .0000 ELEVTR = 15.00 SPDRK = 40.00  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.5 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
374	7.940	.9973	20.10	.0000	180.0	209.9	.2300-01	1285.	94.50	.9970	3781.	.2006-04
375	7.940	1.010	20.05	.0000	180.0	210.7	.2300-01	1278.	93.90	1.000	3770.	.2025-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
374	.7605-07	.2447-01	0.0175
375	.7551-07	.2449-01	.4044-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
374	.00000	.00000	1.0000	.8750	.7106	.7274	.2141-01	.1739-01	.1780-01	11.90	64.39	601.2
374	.00000	.50000-02	2.0000	.7304	.5936	.6073	.1787-01	.1452-01	.1486-01	9.962	67.46	599.5
374	.00000	.0000-01	3.0000	.5572	.4552	.4857	.1363-01	.1114-01	.1188-01	7.826	51.82	582.8
374	.00000	.30000-01	5.0000	.2306	.1901	.2171	.5643-02	.4651-02	.5311-02	3.402	18.85	554.1
374	.00000	.40000-01	6.0000	.1898	.1557	.1804	.4620-02	.3810-02	.4413-02	2.791	15.48	552.8
374	.00000	.50000-01	7.0000	.1588	.1308	.1532	.3884-02	.3201-02	.3749-02	2.337	15.68	555.4
374	.00000	.60000-01	8.0000	.1626	.1341	.1582	.3979-02	.3280-02	.3970-02	2.399	15.19	554.1
374	.00000	.70000-01	9.0000	.1331	.1097	.1304	.3257-02	.2695-02	.3192-02	1.963	13.60	554.3
374	.00000	.80000-01	10.000	.1045	.0820-01	.1030	.2557-02	.2109-02	.2520-02	1.549	10.75	551.2
374	.00000	.90000-01	11.000	.9340-01	.8200-01	.9830-01	.2431-02	.2037-02	.2406-02	1.479	9.389	548.8
374	.00000	.10000+00	12.000	.8250-01	.7300-01	.8730-01	.2165-02	.1787-02	.2150-02	1.317	7.910	548.7
374	.00000	14.000	14.000	.7470-01	.6170-01	.7460-01	.1828-02	.1510-02	.1825-02	1.117	6.212	546.1
374	.00000	15.000	15.000	.7200-01	.5940-01	.7200-01	.1761-02	.1455-02	.1761-02	1.075	6.294	546.5
374	.00000	16.000	16.000	.6440-01	.5320-01	.6450-01	.1575-02	.1301-02	.1577-02	.9610	5.111	546.6
374	.00000	16.000	18.000	.6430-01	.5350-01	.6510-01	.1568-02	.1312-02	.1594-02	.9630	5.988	546.8
374	.00000	17.000	19.000	.6410-01	.5230-01	.6440-01	.1567-02	.1295-02	.1575-02	.9560	6.075	547.0
374	.00000	18.000	20.000	.6230-01	.5280-01	.6430-01	.1564-02	.1292-02	.1572-02	.9540	6.066	546.7
374	.00000	19.000	21.000	.5870-01	.4850-01	.5910-01	.1437-02	.1188-02	.1447-02	.8790	5.596	545.0
374	.00000	.20000	22.000	.5002-01	.4960-01	.6050-01	.1469-02	.1214-02	.1481-02	.8970	5.701	546.5

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RUN  
NUMBER

THETA

X/Y

T/C NO

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H/HREF  
R=0.9H/HREF  
R=1.0H/HREF  
(TAM)H(19T)  
BTU/ R  
FT2SECH(10T)  
BTU/ R  
FT2SECH(1TA)  
BTU/ R  
FT2SECQDOT  
BTU/  
FT2SECDTWOT  
DEC. R  
/SECTH  
DEC. R

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374	.00000	.22500	23.000	.5430-01	.4490-01	.5490-01	.1330-02	.1088-02	.1343-02	.0120	5.167	545.8
374	.00000	.25000	801.00	.5160-01	.4270-01	.5230-01	.1263-02	.1044-02	.1279-02	.0120	4.914	545.5
374	.00000	.30000	802.00	.4530-01	.3740-01	.4580-01	.1108-02	.0915-03	.1121-02	.0120	4.310	545.4
374	.00000	.35000	803.00	.4920-01	.4060-01	.4980-01	.1204-02	.0944-03	.1218-02	.0120	4.672	546.4
374	.00000	.40000	804.00	.4720-01	.3930-01	.4780-01	.1155-02	.0954-03	.1169-02	.0120	4.611	546.7
374	.00000	.45000	805.00	.4240-01	.3500-01	.4290-01	.1037-02	.0854-03	.1050-02	.0120	4.259	547.5
374	.00000	.50000	806.00	.3540-01	.3170-01	.3890-01	.0940-03	.0765-03	.0919-03	.0120	3.978	548.1
374	.00000	.55000	807.00	.3550-01	.2950-01	.3630-01	.0878-03	.0725-03	.0894-03	.0120	3.961	548.5
374	.00000	.60000	808.00	.3280-01	.2700-01	.3320-01	.0818-03	.0618-03	.0816-03	.0120	3.611	549.0
374	.00000	.65000	809.00	.2850-01	.2430-01	.2980-01	.0720-03	.0548-03	.0726-03	.0120	3.240	549.8
374	.00000	.70000	810.00	.2930-01	.2420-01	.2970-01	.0719-03	.0525-03	.0726-03	.0120	3.339	549.8
374	.00000	.75000	811.00	.2730-01	.2260-01	.2770-01	.0660-03	.0522-03	.0672-03	.0120	3.009	549.6
374	.00000	.80000	812.00	.3000-01	.2470-01	.3030-01	.0734-03	.0654-03	.0723-03	.0120	3.303	548.9
374	.00000	.85000	813.00	.2810-01	.2320-01	.2870-01	.0687-03	.0567-03	.0702-03	.0120	3.207	548.2
374	.00000	.90000	814.00	.2600-01	.2140-01	.2660-01	.0630-03	.0546-03	.0650-03	.0120	2.782	546.6
374	.00000	.92500	815.00	.1970-01	.1620-01	.2020-01	.0481-03	.0395-03	.0493-03	.0120	2.424	545.8
374	.00000	.95000	816.00	.1660-01	.1370-01	.1700-01	.0451-03	.0346-03	.0416-03	.0120	2.038	546.4
374	.00000	.97500	817.00	.1350-01	.1110-01	.1350-01	.0330-03	.0278-03	.0340-03	.0120	1.655	548.5
374	.00000	1.0150	818.00	.5900-02	.4900-02	.6100-02	.1439-03	.1188-03	.1488-03	.0120	.6480	549.2
374	.00000	1.0300	819.00	.7200-02	.6000-02	.7500-02	.1768-03	.1459-03	.1829-03	.0120	.7960	549.4
374	.00000	1.0500	820.00	.1020-01	.0840-02	.1050-01	.0249-03	.0203-03	.0258-03	.0120	1.274	549.1
374	.00000	1.0700	821.00	.1870-01	.1540-01	.1870-01	.0456-03	.0378-03	.0456-03	.0120	1.696	540.9
374	.00000	1.0900	822.00	.3110-01	.2570-01	.3110-01	.0760-03	.0629-03	.0760-03	.0120	2.916	539.1
374	.00000	1.1100	823.00	.1940-01	.1360-01	.1640-01	.0401-03	.0330-03	.0401-03	.0120	1.497	538.7
374	.00000	1.1300	824.00	.4630-01	.3840-01	.4710-01	.1231-02	.1015-02	.1246-02	.0120	5.526	549.8
374	.00000	1.1500	825.00	.3180-01	.2620-01	.3210-01	.0771-03	.0641-03	.0786-03	.0120	5.466	551.1
374	.00000	1.1700	826.00	.3830-01	.3160-01	.3860-01	.0935-03	.0729-03	.0948-03	.0120	4.197	550.8
374	.00000	1.1900	827.00	.3410-01	.2870-01	.3450-01	.0843-03	.0685-03	.0843-03	.0120	4.183	551.5
374	.00000	1.2100	828.00	.2500-01	.2070-01	.2550-01	.0618-03	.0503-03	.0626-03	.0120	3.749	550.0
374	.00000	1.2300	829.00	.3340-01	.2760-01	.3340-01	.0817-03	.0675-03	.0817-03	.0120	3.711	545.4
374	.00000	1.2500	830.00	.8110-01	.6590-01	.8110-01	.1985-02	.1638-02	.1985-02	.0120	8.910	550.5
374	.00000	1.2700	831.00	.3230-01	.2670-01	.3230-01	.0783-03	.0654-03	.0789-03	.0120	3.587	544.8
374	.00000	1.2900	832.00	.3550-01	.2540-01	.3550-01	.0682-03	.0562-03	.0682-03	.0120	3.323	539.7
374	.00000	1.3100	833.00	.1370-01	.1130-01	.1370-01	.0334-03	.0262-03	.0334-03	.0120	1.526	542.2
374	.00000	1.3300	834.00	.2620-01	.2160-01	.2620-01	.0640-03	.0529-03	.0640-03	.0120	2.915	543.6
374	.00000	1.3500	835.00	.3080-01	.2550-01	.3080-01	.0756-03	.0624-03	.0756-03	.0120	3.456	541.1
374	.00000	1.3700	836.00	.7180-01	.5920-01	.7270-01	.1757-02	.1450-02	.1778-02	.0120	7.395	550.4
374	.00000	1.3900	837.00	.5950-01	.4910-01	.6030-01	.1457-02	.1202-02	.1475-02	.0120	6.308	552.2
374	.00000	1.4100	838.00	.5180-01	.4270-01	.5250-01	.1263-02	.1046-02	.1284-02	.0120	5.152	552.5
374	.00000	1.4300	839.00	.3240-01	.2670-01	.3260-01	.0792-03	.0638-03	.0804-03	.0120	3.671	551.7
374	.00000	1.4500	840.00	.3520-01	.2900-01	.3560-01	.0804-03	.0709-03	.0810-03	.0120	3.738	550.5
374	.00000	1.4700	841.00	.2090-01	.1730-01	.2150-01	.0525-03	.0423-03	.0525-03	.0120	2.317	547.1

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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(RV1835)

DATE 25 AUG 76 AEDC VKF V418-57A (OH-498) COLLATION DECK

OH-498 (AEDC V418-57A) OPERITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(970) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHOT DEG. R /SEC	TH DEG. R
374	32.000	.95000	837.00	.3390-01	.2800-01	.3490-01	.8287-03	.6841-03	.8529-03	.5040	3.862	548.9
374	32.000	.97500	838.00	.3830-01	.3160-01	.3950-01	.9364-03	.7730-03	.9659-03	.5700	4.522	548.6
374	32.000	1.0150	839.00	.2520-01	.2080-01	.2510-01	.6157-03	.5080-03	.6142-03	.3730	3.014	550.6
374	32.000	1.0300	840.00	.2750-01	.2270-01	.2740-01	.6726-03	.5549-03	.6709-03	.4070	3.174	551.1
374	32.000	1.0450	841.00	.2990-01	.2470-01	.2980-01	.7312-03	.6032-03	.7293-03	.4430	3.390	551.2
374	45.000	.92500	969.00	.1500-02	.1200-02	.1500-02	.3556-04	.2943-04	.3556-04	.2200-01	.1630	539.6
374	45.000	.95000	973.00	.1800-02	.1500-02	.1800-02	.4301-04	.3111-04	.4301-04	.2700-01	.1980	537.8
374	45.000	.97500	978.00	.4000-02	.3300-02	.4000-02	.9859-04	.8163-04	.9859-04	.6100-01	.4540	538.1
374	75.000	.97500	977.00	.3363-02	.2800-02	.3300-02	.8161-04	.6758-04	.8161-04	.5100-01	.3760	538.0
374	85.000	.97500	976.00	.5303-02	.4400-02	.5303-02	.1288-03	.1067-03	.1288-03	.8000-01	.5940	537.9
374	110.00	.10000-01	59.000	.2802	.2303	.2802	.6855-02	.5636-02	.6855-02	.4.071	29.95	563.0
374	160.00	.25000-01	60.000	.9350-01	.7720-01	.9350-01	.2288-02	.1889-02	.2288-02	1.393	9.992	548.0
374	180.00	.50000-01	61.000	.4610-01	.3810-01	.4610-01	.1127-02	.9322-03	.1127-02	.6920	4.407	543.2
374	180.00	.75000-01	62.000	.2290-01	.1900-01	.2290-01	.5614-03	.4645-03	.5614-03	.3460	2.204	541.0
374	180.00	.10000+00	63.000	.1410-01	.1170-01	.1410-01	.3459-03	.2862-03	.3459-03	.2130	1.400	540.3
374	180.00	.12500	64.000	.1020-01	.8500-02	.1020-01	.2502-03	.2071-03	.2502-03	.1550	1.079	539.2
374	180.00	.15000	65.000	.6600-02	.5500-02	.6600-02	.1612-03	.1334-03	.1612-03	.1000+00	.6960	538.4
374	180.00	.16000	65.000	.1830-01	.1510-01	.1830-01	.4472-03	.3701-03	.4472-03	.2760	1.540	539.8
374	180.00	.17000	67.000	.6730-01	.5570-01	.6730-01	.1648-02	.1362-02	.1648-02	1.011	5.636	543.1
374	180.00	.20000	69.000	.1880-01	.1560-01	.1880-01	.4611-03	.3818-03	.4611-03	.2850	1.770	538.4
374	160.00	.40100	72.000	.6900-02	.5700-02	.6900-02	.1688-03	.1398-03	.1688-03	.1050	.8930	536.5
374	180.00	.50000	73.000	.9500-02	.7900-02	.9500-02	.2328-03	.1929-03	.2328-03	.1440	1.230	537.0
374	180.00	.60100	74.000	.1040-01	.8600-02	.1040-01	.2552-03	.2114-03	.2552-03	.1580	1.305	536.8
374	180.00	.70100	75.000	.7500-02	.6200-02	.7500-02	.1826-03	.1513-03	.1826-03	.1130	.9060	536.4

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AEDC VKF V41B-57A (04-49B) COLLATION DECK

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OH-493 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1836)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 15.00 SPDBRK = 40.00  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
382	7.900	.5368	29.99	.0000	180.0	111.2	.1200-01	1283.	95.20	.5400	3776.	.1039-04
393	7.900	.5237	30.03	.0000	180.0	108.5	.1200-01	1283.	95.20	.5270	3776.	.1063-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR R =
382	.7662-07	.1803-01	0.0175
383	.7663-07	.1776-01	.5585-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AM) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TM DEG. R
382	.00000	.00000	1.0000	.7590	.6224	.6536	.1366-01	.1120-01	.1177-01	7.988	43.91	570.1
382	.00000	.50000-02	2.0000	.7562	.6193	.6226	.1361-01	.1115-01	.1121-01	7.902	54.19	574.3
382	.00000	.10000-01	3.0000	.6195	.5086	.5256	.1115-01	.9156-02	.9463-02	6.559	43.78	566.7
382	.00000	.20000-01	4.0000	.4021	.3315	.3560	.7239-02	.5967-02	.6408-02	4.357	24.16	552.9
382	.00000	.30000-01	5.0000	.2916	.2405	.2635	.5249-02	.4330-02	.4743-02	3.175	17.63	549.9
382	.00000	.40000-01	6.0000	.2424	.2000	.2220	.4363-02	.3601-02	.3996-02	2.643	14.68	549.1
382	.00000	.50000-01	7.0000	.2316	.1909	.2141	.4169-02	.3437-02	.3854-02	2.513	16.90	552.0
382	.00000	.60000-01	8.0000	.2322	.1914	.2162	.4179-02	.3446-02	.3892-02	2.522	16.00	551.3
382	.00000	.70000-01	9.0000	.1982	.1634	.1860	.3568-02	.2942-02	.3348-02	2.152	14.92	551.8
382	.00000	.80000-01	10.000	.1553	.1281	.1466	.2796-02	.2307-02	.2638-02	1.693	11.76	549.1
382	.00000	.90000-01	11.000	.1440	.1189	.1364	.2591-02	.2140-02	.2456-02	1.575	10.01	547.1
382	.00000	.10000-00	12.000	.1342	.1108	.1277	.2416-02	.1995-02	.2298-02	1.470	8.838	546.4
382	.00000	.12000	14.000	.1170	.9660-01	.1119	.2106-02	.1740-02	.2014-02	1.285	7.152	544.8
382	.00000	.13000	15.000	.1160	.9580-01	.1111	.2088-02	.1725-02	.2000-02	1.273	7.457	545.2
382	.00000	.14000	16.000	.1063	.8790-01	.1020	.1913-02	.1581-02	.1836-02	1.166	7.419	545.2
382	.00000	.16000	18.000	.1086	.8370-01	.1044	.1955-02	.1615-02	.1880-02	1.192	7.371	545.2
382	.00000	.17000	19.000	.1073	.8830-01	.1025	.1924-02	.1589-02	.1852-02	1.172	7.452	545.7
382	.00000	.18000	20.000	.1022	.8440-01	.9850-01	.1840-02	.1520-02	.1773-02	1.122	7.135	545.3
382	.00000	.19000	21.000	.9940-01	.8220-01	.9590-01	.1790-02	.1479-02	.1727-02	1.094	6.965	543.5



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AEDC VKF V41B-57A (04-49B) COLLATION CHECK

CH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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(RV1836)

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
382	.00000	.20000	22.000	.1009	.8330-01	.9750-01	.1816-02	.1500-02	.1755-02	1.107	7.044	545.1
382	.00000	.22500	23.000	.9330-01	.7710-01	.9030-01	.1679-02	.1387-02	.1626-02	1.025	6.521	544.4
382	.00000	.25000	801.00	.9120-01	.7540-01	.8850-01	.1642-02	.1357-02	.1594-02	1.003	6.381	544.3
382	.00000	.30000	802.00	.8600-01	.7100-01	.8340-01	.1548-02	.1279-02	.1502-02	.9450	6.012	544.4
382	.00000	.35000	803.00	.8920-01	.7350-01	.8650-01	.1505-02	.1266-02	.1557-02	.9780	6.217	545.7
382	.00000	.40000	804.00	.8370-01	.6920-01	.8130-01	.1508-02	.1245-02	.1463-02	.9180	6.012	545.7
382	.00000	.45000	805.00	.7830-01	.6460-01	.7590-01	.1409-02	.1154-02	.1367-02	.8570	5.775	546.8
382	.00000	.50000	806.00	.7110-01	.5870-01	.6900-01	.1409-02	.1057-02	.1242-02	.7780	5.411	546.9
382	.00000	.55000	807.00	.6700-01	.5530-01	.6500-01	.1207-02	.9353-03	.1171-02	.7320	5.426	548.1
382	.00000	.60000	808.00	.6160-01	.5030-01	.5980-01	.1109-02	.9155-03	.1075-02	.6730	4.991	547.8
382	.00000	.65000	809.00	.5540-01	.4820-01	.5670-01	.1052-02	.8682-03	.1021-02	.6380	4.723	548.8
382	.00000	.70000	810.00	.5730-01	.4730-01	.5560-01	.1031-02	.8507-03	.1000-02	.6250	4.787	548.8
382	.00000	.75000	811.00	.5560-01	.4590-01	.5400-01	.1002-02	.8266-03	.9717-03	.6070	4.500	548.5
382	.00000	.80000	812.00	.5870-01	.4650-01	.5700-01	.1057-02	.8724-03	.1025-02	.6420	4.756	547.7
382	.00000	.85000	813.00	.5520-01	.4560-01	.5420-01	.9939-03	.8206-03	.9749-03	.6040	4.632	547.1
382	.00000	.90000	814.00	.4970-01	.4100-01	.4880-01	.6939-03	.7385-03	.8788-03	.5450	3.913	545.3
382	.00000	.92500	815.00	.4070-01	.3360-01	.4010-01	.7324-03	.6052-03	.7219-03	.4470	3.692	543.8
382	.00000	.95000	816.00	.3560-01	.2950-01	.3520-01	.6414-03	.5302-03	.6339-03	.3920	3.239	543.1
382	.00000	.97500	817.00	.3400-01	.2810-01	.3360-01	.6114-03	.5054-03	.6058-03	.3740	3.086	543.3
382	.00000	1.0150	818.00	.1680-01	.1390-01	.1670-01	.3020-03	.2499-03	.3001-03	.1860	1.386	538.4
382	.00000	1.0300	819.00	.1840-01	.1530-01	.1830-01	.3316-03	.2745-03	.3296-03	.2050	1.526	537.4
382	.00000	1.0600	821.00	.2020-01	.1670-01	.2010-01	.3640-03	.3014-03	.3618-03	.2250	1.895	537.6
382	.00000	1.5000	89.000	.1070-01	.0900-02	.1070-01	.1929-03	.1537-03	.1929-03	.1190	.7200	537.1
382	.00000	2.0000	91.000	.1380-01	.1140-01	.1390-01	.2485-03	.2059-03	.2485-03	.1540	.9550	536.3
382	.00000	5.0000-01	90.000	.1900-02	.1600-02	.1900-02	.3435-04	.2844-04	.3435-04	.2100-01	.1280	536.6
382	.00000	4.0000	823.00	.8460-01	.6980-01	.8210-01	.1523-02	.1257-02	.1478-02	.9230	7.324	549.0
382	.00000	5.0000	824.00	.7920-01	.6580-01	.7740-01	.1437-02	.1185-02	.1394-02	.8680	6.886	550.5
382	.00000	6.0000	825.00	.5640-01	.4650-01	.5470-01	.8368-03	.6868-03	.9841-03	.6130	5.446	550.4
382	.00000	7.0000	826.00	.6150-01	.5070-01	.5970-01	.1014-02	.8368-03	.1074-02	.6690	4.948	550.8
382	.00000	8.0000	827.00	.5770-01	.4770-01	.5600-01	.1040-02	.8550-03	.1009-02	.6300	3.839	548.4
382	.00000	9.0000	828.00	.4410-01	.3640-01	.4330-01	.9959-03	.6550-03	.7756-03	.4830	4.535	545.8
382	.00000	9.5000	971.00	.5530-01	.4570-01	.5530-01	.9959-03	.8234-03	.9959-03	.6100	4.642	542.2
382	.00000	9.5000	975.00	.1188	.9810-01	.1183	.2138-02	.1755-02	.2138-02	1.300	3.399	535.9
382	.00000	9.7500	950.00	.4090-01	.3390-01	.4090-01	.7367-03	.6101-03	.7367-03	.4560	3.399	535.9
382	.00000	9.3000	93.000	.9700-02	.8000-02	.9700-02	.1744-03	.1444-03	.1744-03	1.080	.6710	535.9
382	.00000	9.7000	970.00	.2240-01	.1850-01	.2240-01	.4029-03	.3334-03	.4029-03	.2480	1.849	538.5
382	.00000	9.9500	974.00	.4430-01	.3670-01	.4430-01	.7983-03	.6506-03	.7983-03	.4910	3.658	539.2
382	.00000	.97500	979.00	.1420-01	.1420-01	.1420-01	.3078-03	.2550-03	.3078-03	.1910	1.424	534.7
382	.00000	.8200+10	83.000	.1058	.8740-01	.1027	.1905-02	.1573-02	.1848-02	1.156	8.030	548.1
382	.00000	832.00	832.00	.9030-01	.7450-01	.8760-01	.1626-02	.1341-02	.1577-02	.9830	7.038	550.5
382	.00000	833.00	833.00	.7760-01	.6400-01	.7760-01	.1397-02	.1152-02	.1397-02	.8430	5.672	551.2
382	.00000	834.00	834.00	.6870-01	.5670-01	.6660-01	.1236-02	.1020-02	.1199-02	.7480	5.734	549.3
382	.00000	835.00	835.00	.5380-01	.4440-01	.5220-01	.9680-03	.7990-03	.9392-03	.5870	4.212	548.1

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) OF 117 FUSELAGE

(RV1836)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1(9T) BTU/ R F12SEC	H1(TO) BTU/ R F12SEC	H TAW) F12SEC	QDOT BTU/ F12SEC	DTMOT DEG. R /SEC	TH DEG. R
382	32.000	.90000	836.00	.3290-01	.2720-01	.3240-01	.5929-03	.4999-03	.5829-03	.3620	2.687	544.4
382	32.000	.95000	837.00	.4310-01	.3560-01	.4260-01	.7757-03	.6410-03	.7666-03	.4740	3.640	544.0
382	32.000	.97500	838.00	.5070-01	.4190-01	.5020-01	.9128-03	.7549-03	.9045-03	.5600	4.461	541.4
382	32.000	1.0150	839.00	.3130-01	.2590-01	.2920-01	.5630-03	.4660-03	.5383-03	.3470	2.816	539.0
382	32.000	1.0330	840.00	.3510-01	.2910-01	.3360-01	.6322-03	.5232-03	.6044-03	.3900	3.053	538.6
382	32.000	1.0450	841.00	.3540-01	.2930-01	.3380-01	.6368-03	.5271-03	.6088-03	.3930	3.025	538.2
382	45.000	.92500	969.00	.2200-02	.1900-02	.2200-02	.3957-04	.3277-04	.3957-04	.2400-01	.1830	535.9
382	45.000	.95000	973.00	.4000-03	.3000-03	.4000-03	.6508-05	.5391-05	.6508-05	.4000-02	.3000-01	535.6
382	45.000	.97500	977.00	.3000-03	.7000-03	.9030-03	.1531-04	.1269-04	.1531-04	.9000-02	.7100-01	535.0
382	65.000	.97500	976.00	.5000-03	.4000-03	.5000-03	.1621-04	.1343-04	.1621-04	.1030-01	.7500-01	535.1
382	160.00	.10000-01	59.000	.1839	.1518	.1839	.9307-05	.7711-05	.9307-05	.6000-02	.4300-01	534.9
382	160.00	.25000-01	60.000	.5380-01	.4450-01	.5380-01	.3311-02	.2732-02	.3311-02	.2.007	.14.87	548.6
382	180.00	.50000-01	61.000	.2550-01	.2110-01	.2550-01	.9693-03	.8016-03	.9693-03	.5940	4.278	541.5
382	180.00	.75000-01	62.000	.1390-01	.1150-01	.1390-01	.4603-03	.3806-03	.4603-03	.2830	1.806	539.5
382	180.00	1.00000-00	63.000	.9300-02	.7700-02	.9300-02	.2494-03	.2084-03	.2494-03	.1540	.9810	538.4
382	180.00	.12500	64.000	.9100-02	.7600-02	.9100-02	.1682-03	.1393-03	.1682-03	.1040	.6820	537.6
382	180.00	.15000	65.000	.8900-02	.7400-02	.8900-02	.1546-03	.1363-03	.1546-03	.1020	.7100	537.1
382	180.00	.16000	66.000	.2240-01	.1860-01	.2240-01	.1607-03	.1331-03	.1607-03	.9900-01	.6940	536.8
382	180.00	.17000	67.000	.5380-01	.5280-01	.5380-01	.4037-03	.3342-03	.4037-03	.2490	1.392	537.8
382	180.00	.20000	69.000	.1570-01	.1300-01	.1570-01	.1148-02	.9501-03	.1148-02	.7060	3.940	540.1
382	180.00	.40100	72.000	.4800-02	.4000-02	.4800-02	.2834-03	.2346-03	.2834-03	.1750	1.068	536.8
382	180.00	.50000	73.000	.5000-02	.4100-02	.5000-02	.8635-04	.7152-04	.8635-04	.5300-01	.4550	536.3
382	180.00	.60100	74.000	.5800-02	.4800-02	.5800-02	.8938-04	.7402-04	.8938-04	.5500-01	.4710	536.7
382	180.00	.70100	75.000	.5600-02	.4700-02	.5600-02	.1049-03	.8687-04	.1049-03	.6500-01	.5350	535.9
382	180.00						.1011-03	.8371-04	.1011-03	.6300-01	.5000	

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

PAGE 529

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1836)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 15.00 SPDRK = 40.00  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
376	7.940	1.016	30.07	.0000	180.0	210.7	.2300-01	1273.	93.60	1.000	3763.	.2033-04
377	7.940	1.019	30.07	.0000	180.0	210.8	.2300-01	1271.	93.40	1.001	3760.	.2037-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	R =
376	.7532-07		.2447-01	0.0175
377	.7520-07		.2447-01	.4029-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(14H) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
376	.00000	.00000	1.0000	.7703	.6278	.6605	.1886-01	.1537-01	.1616-01	10.57	57.66	585.4
376	.00000	.50000-02	2.0000	.7546	.6137	.6172	.1847-01	.1502-01	.1511-01	10.24	69.63	591.4
376	.00000	.10000-01	3.0000	.6170	.5035	.5207	.1510-01	.1232-01	.1274-01	8.532	56.54	580.8
376	.00000	.20000-01	4.0000	.3963	.3254	.3498	.9699-02	.7964-02	.8562-02	5.669	31.30	561.4
376	.00000	.30000-01	5.0000	.2962	.2435	.2670	.7249-02	.5960-02	.6536-02	4.268	23.61	557.1
376	.00000	.40000-01	6.0000	.2415	.1986	.2206	.5906-02	.4861-02	.5400-02	3.495	19.37	554.2
376	.00000	.50000-01	7.0000	.2255	.1853	.2081	.5519-02	.4534-02	.5093-02	3.235	21.67	559.7
376	.00000	.60000-01	8.0000	.2258	.1857	.2100	.5519-02	.4534-02	.5093-02	3.235	21.67	559.7
376	.00000	.70000-01	9.0000	.1927	.1584	.1805	.4716-02	.3877-02	.4418-02	2.774	19.18	557.5
376	.00000	.80000-01	10.000	.1588	.1306	.1496	.3285-02	.3196-02	.3661-02	2.292	15.86	555.9
376	.00000	.90000-01	11.000	.1466	.1207	.1388	.3588-02	.2954-02	.3396-02	2.129	13.49	552.6
376	.00000	.10000-00	12.000	.1341	.1105	.1275	.3283-02	.2703-02	.3119-02	1.950	11.69	551.9
376	.00000	.12000	14.000	.1224	.1009	.1170	.2895-02	.2469-02	.2852-02	1.790	9.945	548.5
376	.00000	.13000	15.000	.1148	.9470-01	.1099	.2811-02	.2317-02	.2650-02	1.678	9.816	548.8
376	.00000	.14000	16.000	.1039	.8570-01	.9960-01	.2544-02	.2096-02	.2438-02	1.519	9.642	548.1
376	.00000	.16000	18.000	.1062	.8750-01	.1020	.2599-02	.2142-02	.2496-02	1.551	9.572	549.2
376	.00000	.17000	19.000	.1055	.8690-01	.1015	.2582-02	.2128-02	.2483-02	1.540	9.779	549.3
376	.00000	.18000	20.000	.1080	.8900-01	.1040	.2643-02	.2178-02	.2544-02	1.577	10.01	549.3
376	.00000	.19000	21.000	.9790-01	.8070-01	.9440-01	.2396-02	.1976-02	.2310-02	1.436	9.125	546.8

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(RV1836)

AEDC VKF V41B-57A (OH-498) COLLATION DECK  
OH-498 (AEDC V41B-57A) OR3ITER FUSELAGE

DATE 25 AUG 76

22N NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(IGT) BTU/ R FT2SEC	H(ITO) BTU/ R FT2SEC	H(TAM) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TM DEG. R
376	.00000	.20000	22.000	.1014	.8260-01	.9790-01	.2482-02	.2046-02	.2396-02	1.482	9.414	548.6
376	.00000	.22500	23.000	.9230-01	.7610-01	.8940-01	.2259-02	.1863-02	.2187-02	1.352	8.590	547.5
376	.00000	.25000	801.00	.9160-01	.7550-01	.6380-01	.2241-02	.1665-02	.2173-02	1.341	8.521	547.4
376	.00000	.30000	802.00	.8210-01	.6770-01	.7960-01	.2009-02	.1656-02	.1948-02	1.200	7.622	548.4
376	.00000	.35000	803.00	.8330-01	.6380-01	.8090-01	.2043-02	.1683-02	.1981-02	1.216	7.716	550.5
376	.00000	.40000	804.00	.8180-01	.6740-01	.7930-01	.2032-02	.1650-02	.1941-02	1.192	7.789	550.3
376	.00000	.45000	805.00	.7580-01	.6240-01	.7350-01	.1856-02	.1528-02	.1709-02	1.103	7.415	551.6
376	.00000	.50000	806.00	.6930-01	.5720-01	.6740-01	.1701-02	.1401-02	.1648-02	1.010	7.006	551.8
376	.00000	.55000	807.00	.6600-01	.5430-01	.6400-01	.1615-02	.1330-02	.1566-02	.9570	7.072	553.6
376	.00000	.60000	808.00	.6070-01	.5000-01	.5880-01	.1485-02	.1223-02	.1440-02	.8800	6.505	553.3
376	.00000	.65000	809.00	.5610-01	.4610-01	.5430-01	.1372-02	.1129-02	.1330-02	8.113	5.990	554.8
376	.00000	.70000	810.00	.5330-01	.4430-01	.5220-01	.1318-02	.1044-02	.1277-02	7.790	5.951	554.9
376	.00000	.75000	811.00	.5480-01	.4510-01	.5310-01	.1340-02	.1130-02	.1273-02	7.920	5.853	554.6
376	.00000	.80000	812.00	.5870-01	.4830-01	.5690-01	.1436-02	.1132-02	.1392-02	8.500	6.279	554.1
376	.00000	.85000	813.00	.5440-01	.4480-01	.5330-01	.1331-02	.1095-02	.1304-02	7.890	6.033	555.0
376	.00000	.90000	814.00	.5150-01	.4230-01	.5070-01	.1264-02	.1041-02	.1242-02	7.530	5.394	550.1
376	.00000	.92500	815.00	.3690-01	.3210-01	.3830-01	.9517-03	.7846-03	.9376-03	5.690	4.683	548.3
376	.00000	.95000	816.00	.3490-01	.2870-01	.3440-01	.8530-03	.7033-03	.8425-03	5.100	4.202	547.7
376	.00000	.97500	817.00	.3160-01	.2630-01	.3130-01	.7727-03	.6370-03	.7652-03	4.620	3.801	548.3
376	.00000	1.0150	818.00	.1580-01	.1310-01	.1570-01	.3875-03	.3200-03	.3949-03	2.340	1.739	542.2
376	.00000	1.0300	819.00	.1870-01	.1550-01	.1850-01	.4567-03	.3790-03	.4557-03	2.780	2.066	540.5
376	.00000	1.0600	820.00	.1180-01	.9700-02	.1170-01	.2680-03	.2380-03	.2861-03	1.740	1.468	540.8
376	.00000	1.0900	821.00	.7500-02	.6200-02	.7500-02	.1830-03	.1513-03	.1830-03	1.110	.6720	537.7
376	.00000	1.1200	822.00	.1610-01	.1330-01	.1600-01	.3935-03	.3256-03	.3935-03	2.400	1.492	535.9
376	.00000	1.1500	90.000	.8800-02	.7300-02	.8600-02	.2154-03	.1782-03	.2154-03	1.310	.7940	536.2
376	.00000	1.1800	823.00	.8430-01	.6940-01	.8170-01	.2063-02	.1698-02	.2000-02	1.222	9.676	553.5
376	.00000	1.2100	824.00	.7550-01	.6250-01	.7360-01	.1859-02	.1529-02	.1801-02	1.097	8.679	555.6
376	.00000	1.2400	825.00	.5260-01	.4320-01	.5100-01	.1287-02	.1058-02	.1247-02	.7580	6.718	556.3
376	.00000	1.2700	826.00	.6070-01	.4930-01	.5630-01	.1486-02	.1222-02	.1440-02	.8760	6.465	556.3
376	.00000	1.3000	827.00	.5770-01	.4740-01	.5590-01	.1411-02	.1161-02	.1368-02	8.340	6.164	554.6
376	.00000	1.3300	828.00	.4570-01	.3740-01	.4460-01	.1110-02	.0914-03	.1091-02	8.610	5.240	550.7
376	.00000	1.3600	971.00	.6340-01	.5210-01	.6330-01	.1549-02	.1276-02	.1549-02	9.230	6.831	550.1
376	.00000	1.3900	975.00	.1136	.9360-01	.1136	.2780-02	.2290-02	.2780-02	1.652	12.22	551.6
376	.00000	1.4200	979.00	.3970-01	.3280-01	.3970-01	.9716-03	.8037-03	.9716-03	5.920	4.412	536.7
376	.00000	1.4500	980.00	.1100-01	.9100-02	.1100-01	.2689-03	.2225-03	.2689-03	1.640	1.021	535.3
376	.00000	1.4800	981.00	.2040-01	.1690-01	.2040-01	.4996-03	.4126-03	.4996-03	3.020	2.243	542.0
376	.00000	1.5100	982.00	.4740-01	.3910-01	.4740-01	.1159-02	.0974-03	.1159-02	7.010	5.211	541.2
376	.00000	1.5400	983.00	.1180-01	.9200-02	.1180-01	.2688-03	.2391-03	.2688-03	1.770	1.322	533.1
376	.00000	1.5700	831.00+10	.1081	.8900-01	.1048	.2646-02	.2179-02	.2646-02	1.570	10.89	552.5
376	.00000	1.6000	832.00	.9320-01	.7670-01	.9030-01	.2281-02	.1876-02	.2211-02	1.346	9.619	555.6
376	.00000	1.6300	833.00	.7530-01	.6190-01	.7300-01	.1843-02	.1515-02	.1786-02	1.084	7.268	557.7
376	.00000	1.6600	834.00	.7630-01	.6320-01	.7460-01	.1823-02	.1548-02	.1825-02	1.108	8.454	557.4
376	.00000	1.6900	835.00	.5370-01	.4420-01	.5210-01	.1315-02	.1082-02	.1274-02	.7780	5.559	554.4

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(OTO) BTU/ R FT2SEC	H(TAM) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
376	32.000	.90000	836.00	.3580-01	.2950-01	.3520-01	.8766-03	.7223-03	.5220	3.868	549.9
376	32.000	.95000	837.00	.4360-01	.3590-01	.4300-01	.1066-02	.8786-03	.6370	4.879	548.7
376	32.000	.97500	838.00	.5430-01	.4480-01	.5380-01	.1329-02	.1095-02	.7930	6.297	548.8
376	32.000	1.0150	839.00	.3900-01	.3220-01	.3730-01	.9556-03	.7889-03	.5760	4.664	543.5
376	32.000	1.0300	840.00	.4610-01	.3810-01	.4400-01	.1128-02	.9315-03	.6800	5.321	542.9
376	32.000	1.0450	841.00	.5050-01	.4170-01	.4820-01	.1236-02	.1020-02	.7450	5.724	543.3
376	45.000	.92500	969.00	.1600-02	.1400-02	.1600-02	.4031-04	.4031-04	.2500-01	.1830	536.3
376	45.000	.95000	973.00	.3000-03	.3000-03	.3000-03	.7953-05	.7953-05	.5000-02	.3600-01	535.7
376	45.000	.97500	978.00	.3000-03	.3000-03	.3000-03	.7953-05	.7953-05	.5000-02	.3600-01	534.9
376	45.000	.97500	977.00	.4000-03	.4000-03	.4000-03	.1075-04	.1075-04	.7000-02	.4900-01	535.0
376	95.000	.97500	976.00	.1600-02	.1350-02	.1600-02	.3940-04	.3940-04	.2400-01	.1800	535.0
376	180.00	.10000-01	59.000	.1791	.1475	.1791	.4384-02	.4384-02	.2598	19.20	553.3
376	180.00	.25000-01	60.000	.5160-01	.4260-01	.5160-01	.1264-02	.1264-02	.7590	5.455	545.0
376	180.00	.50000-01	61.000	.2320-01	.1910-01	.2320-01	.5666-03	.4682-03	.3430	2.183	541.5
376	180.00	.75000-01	62.000	.1310-01	.1080-01	.1310-01	.3203-03	.2647-03	.1940	1.239	539.4
376	180.00	.10000*00	63.000	.9600-02	.7900-02	.9600-02	.2341-03	.1936-03	.1420	.9340	538.7
376	180.00	.12500	64.000	.9500-02	.7800-02	.9500-02	.2319-03	.1917-03	.1410	.9840	538.0
376	180.00	.15000	65.000	.1350-01	.1120-01	.1350-01	.3307-03	.2735-03	.2016	1.407	537.0
376	180.00	.16000	66.000	.4330-01	.3580-01	.4330-01	.1059-02	.8752-03	.6430	3.589	538.8
376	180.00	.17000	67.000	.7130-01	.5890-01	.7130-01	.1746-02	.1442-02	1.055	5.880	541.9
376	180.00	.20000	69.000	.1670-01	.1380-01	.1670-01	.4089-03	.3382-03	.2490	1.547	536.7
376	180.00	.40100	72.000	.5100-02	.4200-02	.5100-02	.1253-03	.1037-03	.7600-01	.6520	535.7
376	180.00	.50000	73.000	.7500-02	.6200-02	.7500-02	.1845-03	.1526-03	.1120	.9590	536.1
376	180.00	.60100	74.000	.7500-02	.6200-02	.7500-02	.1834-03	.1517-03	.1120	.9220	536.3
376	180.00	.70100	75.000	.7700-02	.6300-02	.7700-02	.1876-03	.1552-03	.1150	.9160	535.3

C-7

DATE 25 AUG 76

AEDC VKF V418-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V418-57A) ORBITER FUSELAGE

FUSELAGE

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 15.00 SPOBRK = 40.00  
BOFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAH DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
384	7.900	.5309	40.05	.0000	180.0	110.0	.1200-01	1283.	95.20	.5340	3777.	.1077-04
385	7.900	.5353	39.99	.0000	180.0	111.1	.1200-01	1285.	95.30	.5390	3779.	.1087-04

RUN NUMBER	MU	HREF BTU/ R FT2	ST FR R =
384	.7654-07	.1791-01	0.0175
385	.7672-07	.1800-01	.5547-01 .5523-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DT/DT DEG. R /SEC	TW DEG. R
384	.00000	.00000	1.0000	.5942	.4892	.5316	.1064-01	.8759-02	.9518-02	6.361	35.20	557.1
384	.00000	.50000-02	2.0000	.7176	.5896	.5856	.1285-01	.1056-01	.1056-01	7.592	52.32	564.2
384	.00000	.10000-01	3.0000	.6513	.5261	.5423	.1167-01	.9599-02	.9710-02	6.936	46.43	560.8
384	.00000	.20000-01	4.0000	.4435	.3658	.3803	.7941-02	.6551-02	.6909-02	4.802	26.66	550.2
384	.00000	.30000-01	5.0000	.3376	.2787	.2943	.6046-02	.4990-02	.5270-02	3.669	20.39	543.1
384	.00000	.40000-01	6.0000	.2834	.2390	.2552	.5182-02	.4279-02	.4563-02	3.154	17.54	546.4
384	.00000	.50000-01	7.0000	.2893	.2382	.2567	.5173-02	.4265-02	.4595-02	3.122	20.99	551.5
384	.00000	.60000-01	8.0000	.2895	.2380	.2560	.5166-02	.4262-02	.4620-02	3.128	19.86	549.4
384	.00000	.70000-01	9.0000	.2499	.2051	.2249	.4474-02	.3690-02	.4027-02	2.703	18.76	550.8
384	.00000	.80000-01	10.000	.2008	.1657	.1817	.3535-02	.2966-02	.3253-02	2.175	15.10	550.0
384	.00000	.90000-01	11.000	.1554	.1613	.1775	.3493-02	.2838-02	.3179-02	2.124	13.49	547.9
384	.00000	.10000+00	12.000	.1806	.1491	.1646	.3234-02	.2670-02	.2948-02	1.984	11.80	547.8
384	.00000	.12000	14.000	.1620	.1339	.1465	.2901-02	.2397-02	.2659-02	1.769	9.846	545.3
384	.00000	.13000	15.000	.1566	.1293	.1437	.2803-02	.2316-02	.2573-02	1.708	10.00	545.8
384	.00000	.14000	16.000	.1459	.1205	.1341	.2613-02	.2158-02	.2401-02	1.591	10.12	546.0
384	.00000	.16000	18.000	.1548	.1279	.1426	.2772-02	.2290-02	.2553-02	1.687	10.43	546.5
384	.00000	.17300	19.000	.1528	.1262	.1409	.2736-02	.2259-02	.2522-02	1.664	10.57	547.0
384	.00000	.18000	20.000	.1518	.1254	.1401	.2718-02	.2245-02	.2509-02	1.653	10.50	547.1
384	.00000	.19000	21.000	.1534	.1268	.1418	.2747-02	.2270-02	.2538-02	1.676	10.66	544.8

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H:(9TO) BTU/ R F12SEC	H:(TO) BTU/ R F12SEC	H:(TAN) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTMDT DEG. R /SEC	TH DEG. R
384	.00000	.20000	22.000	.1456	.1202	.1346	.2607-02	.2152-02	.2411-02	1.586	10.08	546.6
384	.00000	.22500	23.000	.1332	.1101	.1236	.2386-02	.1971-02	.2212-02	1.453	9.244	545.8
384	.00000	.25000	801.00	.1322	.1092	.1228	.2368-02	.1955-02	.2200-02	1.493	9.175	545.7
384	.00000	.30000	802.00	.1192	.9840-01	.1107	.2134-02	.1762-02	.1982-02	1.300	8.264	546.0
384	.00000	.35000	803.00	.1252	.1033	.1163	.2241-02	.1850-02	.2082-02	1.361	8.646	547.8
384	.00000	.40000	804.00	.1193	.9950-01	.1108	.2137-02	.1764-02	.1984-02	1.297	8.485	547.8
384	.00000	.45000	805.00	.1075	.8870-01	.9980-01	.1924-02	.1587-02	.1786-02	1.164	7.837	549.9
384	.00000	.50000	806.00	.1002	.8270-01	.9300-01	.1794-02	.1480-02	.1663-02	1.085	7.532	550.1
384	.00000	.55000	807.00	.8590-01	.7910-01	.8900-01	.1717-02	.1415-02	.1593-02	1.036	7.662	551.6
384	.00000	.60000	808.00	.8740-01	.7210-01	.8110-01	.1565-02	.1291-02	.1453-02	.9450	6.989	551.4
384	.00000	.65000	809.00	.8210-01	.6760-01	.7620-01	.1469-02	.1211-02	.1354-02	.8850	6.541	552.9
384	.00000	.70000	810.00	.7910-01	.6520-01	.7340-01	.1417-02	.1168-02	.1315-02	.8530	6.521	553.1
384	.00000	.75000	811.00	.7760-01	.6400-01	.7200-01	.1389-02	.1145-02	.1289-02	.8360	6.184	552.8
384	.00000	.80000	812.00	.8350-01	.6880-01	.7750-01	.1494-02	.1232-02	.1367-02	.9010	6.665	552.0
384	.00000	.85000	813.00	.7810-01	.6440-01	.7320-01	.1399-02	.1154-02	.1313-02	.8440	6.461	551.6
384	.00000	.90000	814.00	.7370-01	.6080-01	.6930-01	.1319-02	.1088-02	.1241-02	.7990	5.727	549.3
384	.00000	.92500	815.00	.5750-01	.4750-01	.5420-01	.1029-02	.8497-03	.9707-03	.6250	5.146	547.9
384	.00000	.95000	816.00	.5030-01	.4350-01	.5020-01	.9515-03	.7855-03	.8997-03	.5780	4.760	547.7
384	.00000	.97500	817.00	.2920-01	.2420-01	.2760-01	.5237-03	.4329-03	.4982-03	.3210	4.491	548.8
384	.00000	1.0150	818.00	.2440-01	.2010-01	.2320-01	.5457-03	.4513-03	.5192-03	.2670	2.469	542.2
384	.00000	1.0500	819.00	.2400-01	.2010-01	.2320-01	.5457-03	.4513-03	.5192-03	.2670	2.469	542.2
384	.00000	1.0800	820.00	.4700-02	.3900-02	.4700-02	.8463-04	.7011-04	.8463-04	.5200-01	.3170	535.2
384	.00000	1.1000	821.00	.9500-02	.7100-02	.8500-02	.1526-03	.1264-03	.1526-03	.9500-01	.5890	534.2
384	.00000	1.1200	822.00	.1186	.9780-01	.1101	.2124-02	.1751-02	.1972-02	1.281	10.15	551.7
384	.00000	1.1400	823.00	.1083	.8930-01	.1005	.1940-02	.1599-02	.1800-02	1.167	9.240	553.4
384	.00000	1.1600	824.00	.7390-01	.6090-01	.6850-01	.1323-02	.1090-02	.1227-02	.7940	7.042	554.3
384	.00000	1.1800	825.00	.7780-01	.6410-01	.7220-01	.1394-02	.1148-02	.1293-02	.8360	6.178	554.9
384	.00000	1.2000	826.00	.8050-01	.6640-01	.7470-01	.1442-02	.1189-02	.1338-02	.8680	6.419	552.8
384	.00000	1.2200	827.00	.8420-01	.6950-01	.8070-01	.1556-02	.1244-02	.1508-02	.7000	5.550	549.8
384	.00000	1.2400	828.00	.1522	.1256	.1522	.2726-02	.2248-02	.2726-02	.9140	6.771	548.8
384	.00000	1.2600	829.00	.4950-01	.4110-01	.4960-01	.8879-03	.7540-03	.8879-03	1.648	12.20	550.4
384	.00000	1.2800	830.00	.8500-02	.7100-02	.8500-02	.1525-03	.1264-03	.1525-03	.5490	4.096	536.3
384	.00000	1.3000	831.00	.2990-01	.2470-01	.2950-01	.5354-03	.4427-03	.5354-03	.9500-01	.5890	534.2
384	.00000	1.3200	832.00	.6440-01	.5330-01	.6440-01	.1153-02	.9539-03	.1153-02	.3280	2.442	541.6
384	.00000	1.3400	833.00	.1650-01	.1370-01	.1650-01	.2953-03	.2447-03	.2953-03	.7080	5.270	540.6
384	.00000	1.3600	834.00	.1371	.1131	.1273	.2455-02	.2026-02	.2280-02	1.485	10.32	549.8
384	.00000	1.3800	835.00	.1182	.9750-01	.1097	.2117-02	.1745-02	.1965-02	1.274	9.115	553.1
384	.00000	1.4000	836.00	.1043	.8590-01	.9660-01	.1867-02	.1538-02	.1733-02	1.120	7.518	555.2
384	.00000	1.4200	837.00	.9060-01	.7470-01	.8410-01	.1623-02	.1337-02	.1506-02	.9750	7.450	554.2
384	.00000	1.4400	838.00	.7830-01	.6450-01	.7260-01	.1401-02	.1155-02	.1301-02	.8440	6.042	552.5
384	.00000	1.4600	839.00	.5240-01	.4320-01	.4920-01	.9374-03	.7737-03	.8817-03	.5680	4.211	548.7

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) CREITER FUSELAGE

(RV1837)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TH DEG. R
384	32.000	.95000	837.00	.6280-01	.5180-01	.5930-01	.1124-02	.9275-03	.1063-02	.6810	5.220	518.9
384	32.000	.97500	838.00	.8150-01	.6730-01	.7730-01	.1460-02	.1205-02	.1384-02	.8860	7.031	518.5
384	32.000	1.0150	839.00	.6680-01	.5520-01	.6120-01	.1196-02	.9884-03	.1095-02	.7300	5.906	515.2
384	32.000	1.0300	840.00	.7310-01	.6040-01	.6700-01	.1310-02	.1082-02	.1199-02	.8000	6.252	514.2
384	32.000	1.0450	841.00	.7840-01	.6480-01	.7180-01	.1404-02	.1161-02	.1286-02	.8590	6.597	513.6
384	45.000	.92500	959.00	.2500-02	.2100-02	.2500-02	.4516-04	.3765-04	.4546-04	.2800-01	.2100	535.9
384	45.000	.95000	973.00	.7000-03	.6000-03	.7000-03	.1190-04	.9886-05	.1190-04	.7000-02	.5500-01	534.8
384	45.000	.97500	978.00	.1200-02	.1000-02	.1200-02	.2160-04	.1790-04	.2160-04	.1300-01	.1000+00	534.2
384	75.000	.97500	977.00	.7000-03	.6000-03	.7000-03	.1330-04	.1102-04	.1330-04	.8000-02	.6200-01	534.2
384	85.000	.97500	976.00	.2000-02	.1700-02	.2000-02	.3655-04	.3030-04	.3655-04	.2300-01	.1690	534.0
384	180.00	.10000-01	59.000	.1122	.9280-01	.1122	.2009-02	.1561-02	.2009-02	1.231	9.147	512.4
384	180.00	.25000-01	60.000	.3100-01	.2550-01	.3100-01	.5547-03	.4590-03	.5547-03	.3420	2.462	538.9
384	180.00	.50000-01	61.000	.1480-01	.1220-01	.1480-01	.2647-03	.2192-03	.2647-03	.1630	1.044	537.6
384	180.00	.75000-01	62.000	.1110-01	.9200-02	.1110-01	.1984-03	.1643-03	.1984-03	.1230	.7840	536.8
384	180.00	1.0000-00	63.000	.1410-01	.1160-01	.1410-01	.2519-03	.2086-03	.2519-03	.1560	1.025	536.1
384	180.00	.12500	64.000	.1650-01	.1380-01	.1650-01	.2976-03	.2465-03	.2976-03	.1840	1.288	536.0
384	180.00	.15000	65.000	.2260-01	.1870-01	.2260-01	.4040-03	.3346-03	.4040-03	.2500	1.748	536.2
384	180.00	.16000	66.000	.5720-01	.4740-01	.5720-01	.1025-02	.8483-03	.1025-02	.6320	3.533	538.0
384	180.00	.17000	67.000	.7890-01	.6530-01	.7890-01	.1412-02	.1169-02	.1412-02	.8700	4.860	538.8
384	180.00	.20000	69.000	.1700-01	.1410-01	.1700-01	.3046-03	.2523-03	.3046-03	.1890	1.172	535.7
384	180.00	.40100	72.000	.4400-02	.3700-02	.4400-02	.7917-04	.6560-04	.7917-04	.4900-01	.4190	534.7
384	180.00	.50000	73.000	.3000-02	.2500-02	.3000-02	.5325-04	.4412-04	.5325-04	.3300-01	.2820	534.9
384	180.00	.60100	74.000	.3100-02	.2600-02	.3100-02	.5520-04	.4574-04	.5520-04	.3400-01	.2830	534.8
384	180.00	.70100	75.000	.4800-02	.4000-02	.4800-02	.8571-04	.7103-04	.8571-04	.5300-01	.4260	534.0

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1837)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 15.00 SPOBRK = 40.00  
BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
378	7.940	1.001	40.09	.0000	180.0	210.0	.2300-01	1282.	94.20	.9970	3777.	.2012-04
379	7.940	.9933	40.10	.0000	180.0	210.1	.2300-01	1290.	94.80	.9970	3787.	.2001-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
378	.7586-07		.2446-01	0.0175
379	.7630-07		.2449-01	.4059-01 .4072-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAX)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTAOT DEG. R /SEC	TW DEG. R
378	.00000	.00000	1.0000	.6079	.4990	.5430	.1487-01	.1221-01	.1328-01	8.745	48.17	566.0
378	.00000	.50000-02	2.0000	.7108	.5819	.5819	.1739-01	.1424-01	.1424-01	10.07	69.02	575.0
378	.00000	.10000-01	3.0000	.6437	.5279	.5341	.1575-01	.1291-01	.1306-01	9.206	61.36	569.5
378	.00000	.20000-01	4.0000	.4365	.3536	.3733	.1068-01	.8796-02	.9145-02	6.398	35.44	554.9
378	.00000	.30000-01	5.0000	.3458	.2651	.3012	.8459-02	.6975-02	.7367-02	5.100	28.30	551.2
378	.00000	.40000-01	6.0000	.2931	.2419	.2583	.7170-02	.5917-02	.6317-02	4.340	24.11	548.8
378	.00000	.50000-01	7.0000	.2819	.2321	.2502	.6896-02	.5679-02	.6121-02	4.126	27.69	555.8
378	.00000	.60000-01	8.0000	.2844	.2344	.2542	.6958-02	.5735-02	.6219-02	4.186	26.53	552.5
378	.00000	.70000-01	9.0000	.2458	.2024	.2210	.6013-02	.4953-02	.5407-02	3.603	24.94	554.9
378	.00000	.80000-01	10.000	.1932	.1593	.1743	.4727-02	.3898-02	.4275-02	2.849	19.76	551.4
378	.00000	.90000-01	11.000	.1901	.1569	.1725	.4549-02	.3837-02	.4222-02	2.817	17.90	548.1
378	.00000	.10000+00	12.000	.1773	.1462	.1615	.4337-02	.3578-02	.3957-02	2.621	15.73	549.8
378	.00000	.12000	14.000	.1565	.1292	.1433	.3828-02	.3161-02	.3507-02	2.326	12.51	546.6
378	.00000	.13000	15.000	.1586	.1310	.1453	.3681-02	.3204-02	.3560-02	2.355	13.79	547.2
378	.00000	.14000	16.000	.1480	.1222	.1363	.3622-02	.2989-02	.3326-02	2.196	13.96	547.6
378	.00000	.16000	18.000	.1502	.1239	.1382	.3674-02	.3032-02	.3361-02	2.224	13.73	548.9
378	.00000	.17000	19.000	.1522	.1262	.1409	.3741-02	.3087-02	.3417-02	2.261	14.35	549.7
378	.00000	.18000	20.000	.1518	.1252	.1400	.3713-02	.3063-02	.3424-02	2.243	14.24	549.9
378	.00000	.19000	21.000	.1452	.1199	.1341	.3553-02	.2933-02	.3261-02	2.157	13.71	547.1

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1837)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TM DEG. R
378	.00000	.20000	22.000	.1443	.1190	.1334	.3530-02	.2912-02	.3263-02	2.135	13.55	549.4
378	.00000	.22500	23.000	.1379	.1133	.1278	.3374-02	.2784-02	.3127-02	2.044	12.98	548.2
378	.00000	.25000	801.00	.1325	.1094	.1231	.3243-02	.2676-02	.3011-02	1.964	12.48	548.3
378	.00000	.30000	802.00	.1216	.1004	.1129	.2976-02	.2456-02	.2763-02	1.801	11.44	548.8
378	.00000	.35000	803.00	.1211	.9980-01	.1124	.2962-02	.2442-02	.2749-02	1.785	11.32	551.6
378	.00000	.40000	804.00	.1228	.1012	.1139	.3003-02	.2476-02	.2787-02	1.809	11.81	551.6
378	.00000	.45000	805.00	.1111	.9160-01	.1031	.2718-02	.2240-02	.2622-02	1.635	10.99	552.5
378	.00000	.50000	806.00	.9750-01	.8030-01	.9050-01	.2385-02	.1966-02	.2217-02	1.433	9.929	553.3
378	.00000	.55000	807.00	.9430-01	.7760-01	.8740-01	.2306-02	.1899-02	.2139-02	1.380	10.19	555.4
378	.00000	.60000	808.00	.8550-01	.7040-01	.7930-01	.2091-02	.1669-02	.1940-02	1.252	9.240	555.6
378	.00000	.65000	809.00	.8290-01	.6820-01	.7690-01	.2028-02	.1669-02	.1881-02	1.210	8.921	557.6
378	.00000	.70000	810.00	.7930-01	.6530-01	.7350-01	.1940-02	.1597-02	.1799-02	1.156	8.815	558.4
378	.00000	.75000	811.00	.7940-01	.6530-01	.7360-01	.1543-02	.1599-02	.1802-02	1.157	8.528	558.6
378	.00000	.80000	812.00	.8330-01	.6850-01	.7720-01	.2038-02	.1677-02	.1897-02	1.213	8.938	559.0
378	.00000	.85000	813.00	.7890-01	.6490-01	.7400-01	.1930-02	.1588-02	.1809-02	1.150	8.769	558.4
378	.00000	.90000	814.00	.7420-01	.6110-01	.6980-01	.1816-02	.1495-02	.1707-02	1.084	7.742	557.1
378	.00000	.92500	815.00	.5980-01	.4930-01	.5640-01	.1463-02	.1205-02	.1379-02	.8760	7.185	555.6
378	.00000	.95000	816.00	.5610-01	.4620-01	.5300-01	.1374-02	.1131-02	.1298-02	.8210	6.737	556.0
378	.00000	.97500	817.00	.5270-01	.4340-01	.4990-01	.1289-02	.1061-02	.1221-02	.7690	6.307	557.1
378	.00000	1.0150	818.00	.3570-01	.2940-01	.3390-01	.8726-03	.7197-03	.8295-03	5.270	3.898	550.5
378	.00000	1.0300	819.00	.3560-01	.2930-01	.3380-01	.8699-03	.7178-03	.8270-03	5.260	3.900	548.9
378	.00000	1.0500	821.00	.1530-01	.1260-01	.1450-01	.3741-03	.3086-03	.3556-03	1.250	.7530	549.6
378	10.000	1.5000	89.000	.8300-02	.6800-02	.8300-02	.2020-03	.1672-03	.2020-03	1.250	.7460	537.0
378	11.500	.20000	90.000	.1000-03	.1000-03	.1000-03	.1946-03	.1611-03	.1946-03	1.200	.7000-02	537.4
378	17.500	.40000	823.00	.1166	.9600-01	.1082	.2953-02	.2349-02	.2647-02	1.706	13.49	556.3
378	17.500	.50000	824.00	.1045	.8600-01	.9690-01	.2557-02	.2104-02	.2371-02	1.523	12.03	558.4
378	17.500	.60000	825.00	.7120-01	.5860-01	.6600-01	.1742-02	.1433-02	.1615-02	1.038	9.183	558.2
378	17.500	.70000	826.00	.9160-01	.7300-01	.8490-01	.2240-02	.1842-02	.2077-02	1.331	9.802	560.1
378	17.500	.80000	827.00	.7920-01	.6510-01	.7340-01	.1937-02	.1593-02	.1796-02	1.152	8.491	559.2
378	17.500	.90000	828.00	.6320-01	.5200-01	.5940-01	.1546-02	.1273-02	.1453-02	.9230	7.291	557.5
378	20.000	.92500	971.00	.1262	.1037	.1262	.3087-02	.2538-02	.3087-02	1.829	13.46	561.7
378	20.000	.95000	975.00	.1514	.1246	.1514	.3704-02	.3048-02	.3704-02	2.208	16.29	558.0
378	20.000	.97500	980.00	.5360-01	.4430-01	.5360-01	.1311-02	.1085-02	.1311-02	.8050	5.987	540.4
378	24.000	.20000	93.000	.1010-01	.8400-02	.1010-01	.2474-03	.2048-03	.2474-03	1.530	9.480	537.2
378	30.000	.92500	970.00	.7270-01	.5990-01	.7270-01	.1779-02	.1466-02	.1779-02	1.067	7.881	554.5
378	30.000	.95000	974.00	.6690-01	.5530-01	.6690-01	.1638-02	.1353-02	.1638-02	.9990	7.416	544.2
378	30.000	.97500	979.00	.2960-01	.2450-01	.2960-01	.7251-03	.6061-03	.7251-03	1.460	3.324	538.5
378	32.000	.40000	.93100+10	.1373	.1131	.1274	.3358-02	.2767-02	.3116-02	2.016	13.97	553.9
378	32.000	.50000	832.00	.1172	.9650-01	.1087	.2868-02	.2360-02	.2659-02	1.709	12.19	558.2
378	32.000	.60000	833.00	.9850-01	.8130-01	.9130-01	.2410-02	.1982-02	.2235-02	1.433	9.600	559.4
378	32.000	.70000	834.00	.7190-01	.5900-01	.6660-01	.1758-02	.1444-02	.1629-02	1.038	7.899	563.5
378	32.000	.80000	835.00	.7310-01	.6010-01	.6780-01	.1788-02	.1471-02	.1658-02	1.063	7.577	559.7

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(910) BTU/ R FT2SEC	H(101) BTU/ R FT2SEC	H(141) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DT4DT DEG. R /SEC	TH DEG. R
378	32.000	.90000	836.00	.5990-01	.4930-01	.5630-01	.1464-02	.1206-02	.1376-02	.8750	6.456	556.7
378	32.000	.95000	837.00	.7750-01	.6370-01	.7320-01	.1895-02	.1559-02	.1790-02	1.129	8.609	558.4
378	32.000	.97500	838.00	.1174	.9650-01	.1111	.2872-02	.2361-02	.2719-02	1.442	13.40	562.2
378	32.000	1.0150	839.00	.9880-01	.8130-01	.9030-01	.2417-02	.1989-02	.2208-02	1.460	11.60	557.5
378	32.000	1.0300	840.00	.9970-01	.8210-01	.9110-01	.2438-02	.2008-02	.2229-02	1.460	11.35	555.2
378	32.000	1.0450	841.00	.9970-01	.8210-01	.9110-01	.2439-02	.2009-02	.2229-02	1.460	11.15	555.3
378	45.000	.92500	969.00	.4500-02	.3900-02	.4500-02	.1113-03	.9215-04	.1113-03	.6900-01	.5120	536.8
378	45.000	.95000	977.00	.5000-03	.4000-03	.5000-03	.1280-04	.1060-04	.1280-04	.8000-02	.5900-01	536.0
378	45.000	.97500	978.00	.8000-03	.7000-03	.8000-03	.2005-04	.1661-04	.2005-04	.1200-01	.9200-01	535.9
378	75.000	.97500	977.00	.4000-03	.3000-03	.4000-03	.9121-05	.7554-05	.9121-05	.6000-02	.4200-01	535.9
378	85.000	.97500	976.00	.1700-02	.1400-02	.1700-02	.4074-04	.3374-04	.4074-04	.2500-01	.1880	535.8
378	180.00	.10000-01	59.000	.1075	.8880-01	.1075	.2629-02	.2172-02	.2629-02	1.603	11.90	544.2
378	180.00	.25000-01	60.000	.2910-01	.2410-01	.2910-01	.7116-03	.5887-03	.7116-03	.4370	3.151	539.4
378	180.00	.50000-01	61.000	.1340-01	.1110-01	.1340-01	.3268-03	.2705-03	.3268-03	.2010	1.285	538.1
378	180.00	.75000-01	62.000	.1040-01	.8600-02	.1040-01	.2553-03	.2113-03	.2553-03	.1570	1.004	538.1
378	180.00	1.0000+00	63.000	.1500-01	.1240-01	.1500-01	.3670-03	.3037-03	.3670-03	.2260	1.485	538.3
378	180.00	.12500	64.000	.2210-01	.1830-01	.2210-01	.5400-03	.4469-03	.5400-03	.3330	2.322	538.3
378	180.00	.15000	65.000	.3260-01	.2700-01	.3260-01	.7969-03	.6594-03	.7969-03	.4900	3.422	538.9
378	180.00	.15000	66.000	.7900-01	.6530-01	.7900-01	.1934-02	.1598-02	.1934-02	1.181	6.583	543.2
378	180.00	.17000	67.000	.9610-01	.7950-01	.9610-01	.2352-02	.1944-02	.2352-02	1.436	8.000	543.5
378	180.00	.20900	69.000	.1790-01	.1480-01	.1790-01	.4377-03	.3622-03	.4377-03	.2700	1.673	538.3
378	180.00	.40100	72.000	.3100-02	.2600-02	.3100-02	.7695-04	.6370-04	.7695-04	.4700-01	.4040	537.3
378	180.00	.50000	73.000	.4200-02	.3500-02	.4200-02	.1032-03	.8546-04	.1032-03	.6400-01	.5420	537.9
378	180.00	.60100	74.000	.3600-02	.3000-02	.3600-02	.8761-04	.7251-04	.8761-04	.5400-01	.4450	538.2
378	180.00	.70100	75.000	.4200-02	.3500-02	.4200-02	.1028-03	.8510-04	.1028-03	.6300-01	.5060	537.5

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1838)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 15.00 SPOBRK = 40.00  
BOFLAP = 15.00 MACH = 8.0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PSIA	PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
386	7.900	.5215	30.03	.0000	180.0	108.1	.1200-01	1284.	95.20	.5250	3777.	.1058-04
387	7.900	.5334	30.03	.0000	180.0	110.8	.1200-01	1285.	95.30	.5380	3780.	.1083-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
386	.7666-07	.1775-01	0.0175
387	.7676-07	.1798-01	.5596-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(190) BTU/ R FT2SEC	H(100) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
386	.00000	.00000	1.0000	.7914	.6487	.6814	.1403-01	.1152-01	.1210-01	8.199	45.03	571.8
386	.00000	.50000-02	2.0000	.7568	.6195	.6230	.1343-01	.1100-01	.1106-01	7.784	53.33	576.0
386	.00000	.10000-01	3.0000	.6436	.5282	.5459	.1143-01	.9376-02	.9690-02	6.711	44.76	568.0
386	.00000	.20000-01	4.0000	.4015	.3308	.3553	.7126-02	.5873-02	.6306-02	4.286	23.75	554.0
386	.00000	.30000-01	5.0000	.2940	.2426	.2656	.5220-02	.4306-02	.4715-02	3.157	17.53	550.5
386	.00000	.40000-01	6.0000	.2600	.2145	.2380	.4614-02	.3807-02	.4225-02	2.794	15.51	550.0
386	.00000	.50000-01	7.0000	.2336	.1843	.2067	.3969-02	.3272-02	.3669-02	2.392	16.08	552.7
386	.00000	.60000-01	8.0000	.2323	.1915	.2163	.4123-02	.3400-02	.3839-02	2.488	15.77	552.0
386	.00000	.70000-01	9.0000	.2012	.1659	.1887	.3572-02	.2944-02	.3350-02	2.152	14.91	552.9
386	.00000	.80000-01	10.000	.1615	.1332	.1523	.2866-02	.2365-02	.2704-02	1.735	12.04	550.2
386	.00000	.90000-01	11.000	.1512	.1248	.1430	.2684-02	.2216-02	.2543-02	1.631	10.36	547.8
386	.00000	.10000+00	12.000	.1346	.1111	.1280	.2389-02	.1972-02	.2272-02	1.452	8.728	545.9
386	.00000	.12000	14.000	.1237	.1022	.1183	.2196-02	.1814-02	.2100-02	1.338	7.447	545.3
386	.00000	.13000	15.000	.1152	.9520-01	.1104	.2046-02	.1690-02	.1959-02	1.246	7.298	546.2
386	.00000	.14000	16.000	.1061	.8760-01	.1018	.1883-02	.1556-02	.1806-02	1.147	7.294	546.3
386	.00000	.15000	18.000	.1090	.9000-01	.1047	.1934-02	.1597-02	.1859-02	1.177	7.277	546.7
386	.00000	.16000	19.000	.1085	.8960-01	.1044	.1925-02	.1590-02	.1853-02	1.172	7.447	546.9
386	.00000	.17000	20.000	.1046	.8640-01	.1048	.1857-02	.1534-02	.1789-02	1.130	7.180	547.1
386	.00000	.18000	21.000	.1024	.8460-01	.9890-01	.1818-02	.1502-02	.1754-02	1.109	7.058	545.1

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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(RV1838)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(IGT) BTU/ R FT2SEC	H(IGT) BTU/ R FT2SEC	H(IGT) BTU/ R FT2SEC	H(IGT) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
386	.00000	.20000	22.000	.1000+00	.8260-01	.9630-01	.1775-02	.1466-02	.1715-02	.1715-02	1.081	6.870	546.6
386	.00000	.22500	23.000	.9400-01	.7770-01	.9110-01	.1669-02	.1379-02	.1616-02	.1616-02	1.018	6.472	545.7
386	.00000	.25000	801.00	.9150-01	.7560-01	.8870-01	.1524-02	.1341-02	.1575-02	.1575-02	.9900	6.297	545.7
386	.00000	.30000	802.00	.8530-01	.7040-01	.8270-01	.1513-02	.1250-02	.1468-02	.1468-02	.9230	5.867	545.8
386	.00000	.35000	803.00	.8730-01	.7200-01	.8430-01	.1549-02	.1279-02	.1503-02	.1503-02	.9410	5.981	547.6
386	.00000	.40000	804.00	.8600-01	.7110-01	.8350-01	.1527-02	.1261-02	.1482-02	.1482-02	.9290	6.079	547.1
386	.00000	.45000	805.00	.7690-01	.6350-01	.7450-01	.1365-02	.1127-02	.1324-02	.1324-02	.8250	5.581	548.4
386	.00000	.50000	806.00	.7040-01	.5810-01	.6820-01	.1249-02	.1031-02	.1211-02	.1211-02	.7580	5.457	548.3
386	.00000	.55000	807.00	.6950-01	.5650-01	.6610-01	.1216-02	.1003-02	.1179-02	.1179-02	.6670	5.457	549.4
386	.00000	.60000	808.00	.6200-01	.5120-01	.6010-01	.1100-02	.9081-03	.1067-02	.1067-02	.6670	4.996	550.2
386	.00000	.65000	809.00	.6280-01	.5180-01	.6030-01	.1115-02	.9201-03	.1082-02	.1082-02	.6750	4.996	550.0
386	.00000	.70000	810.00	.5830-01	.4710-01	.5730-01	.1043-02	.8363-03	.1012-02	.1012-02	.6320	4.838	549.7
386	.00000	.75000	811.00	.5710-01	.4710-01	.5540-01	.1014-02	.8363-03	.9831-03	.9831-03	.6140	4.546	549.7
386	.00000	.80000	812.00	.6010-01	.4560-01	.5830-01	.1066-02	.8601-03	.1034-02	.1034-02	.6470	4.791	548.9
386	.00000	.85000	813.00	.5560-01	.4590-01	.5450-01	.9865-03	.8144-03	.9675-03	.9675-03	.5990	4.597	547.7
386	.00000	.90000	814.00	.5100-01	.4210-01	.5010-01	.9052-03	.7477-03	.8897-03	.8897-03	.5520	3.951	545.9
386	.00000	.92500	815.00	.2570-01	.2130-01	.2540-01	.4571-03	.3778-03	.4504-03	.4504-03	.2800	2.308	543.5
386	.00000	.95000	816.00	.1590-01	.1310-01	.1570-01	.2819-03	.2329-03	.2784-03	.2784-03	.1730	1.424	543.1
386	.00000	.97500	817.00	.1590-01	.1280-01	.1540-01	.2753-03	.2275-03	.2728-03	.2728-03	.1680	1.388	544.4
386	.00000	1.0150	818.00	.7800-02	.6500-02	.7830-02	.1390-03	.1147-03	.1381-03	.1381-03	.8400-01	.6220	550.6
386	.00000	1.0300	819.00	.4650-01	.3840-01	.4630-01	.8261-03	.6810-03	.8207-03	.8207-03	.9980	3.681	552.8
386	.00000	1.0600	821.00	.1076	.8850-01	.1069	.1910-02	.1573-02	.1898-02	.1898-02	1.143	9.541	557.3
386	10.000	.15000	89.000	.6900-02	.5700-02	.6930-02	.1224-03	.1013-03	.1224-03	.1224-03	.7600-01	.4570	537.7
386	11.500	.20000	91.000	.1400-01	.1160-01	.1430-01	.2479-03	.2053-03	.2479-03	.2479-03	.1540	.9350	535.6
386	14.000	.50000-01	90.000	.1110-01	.9200-02	.1110-01	.1966-03	.1628-03	.1966-03	.1966-03	.1220	.7350	536.8
386	17.500	.40000	823.00	.8500-01	.7010-01	.8240-01	.1508-02	.1244-02	.1463-02	.1463-02	.9120	7.230	550.8
386	17.500	.50000	824.00	.7930-01	.6540-01	.7690-01	.1408-02	.1161-02	.1366-02	.1366-02	.8500	6.732	552.1
386	17.500	.60000	825.00	.5440-01	.4480-01	.5270-01	.9653-03	.7960-03	.9362-03	.9362-03	.5830	5.174	551.6
386	17.500	.70000	826.00	.6150-01	.5070-01	.5970-01	.1092-02	.9007-03	.1059-02	.1059-02	.6600	4.884	551.1
386	17.500	.80000	827.00	.5980-01	.4930-01	.5830-01	.1061-02	.8752-03	.1029-02	.1029-02	.6430	4.759	549.6
386	17.500	.90000	828.00	.4540-01	.3750-01	.4460-01	.8060-03	.6655-03	.7922-03	.7922-03	.4900	3.896	547.0
386	20.000	.92500	971.00	.4820-01	.3990-01	.4820-01	.8553-03	.7074-03	.8563-03	.8563-03	.5220	3.875	545.6
386	20.000	.95000	975.00	.1089	.8990-01	.1089	.1934-02	.1596-02	.1934-02	.1934-02	1.173	8.686	549.0
386	20.000	.97500	975.00	.3510-01	.2300-01	.3510-01	.6229-03	.5151-03	.6229-03	.6229-03	.3830	2.952	540.1
386	24.000	.20000	93.000	.9800-02	.8100-02	.9830-02	.1746-03	.1447-03	.1746-03	.1746-03	.1080	.6730	535.6
386	30.000	.92500	970.00	.2110-01	.1750-01	.2110-01	.3746-03	.3093-03	.3746-03	.3746-03	.2300	1.713	540.8
386	30.000	.95000	974.00	.4270-01	.3530-01	.4270-01	.7571-03	.6261-03	.7571-03	.7571-03	.4650	3.454	541.8
386	30.000	.97500	979.00	.2380-01	.1970-01	.2330-01	.4227-03	.3500-03	.4227-03	.4227-03	.2610	1.849	536.7
386	32.000	.83100+10	1074	.8860-01	.8860-01	.1042	.1907-02	.1574-02	.1850-02	.1850-02	1.155	8.014	550.0
386	32.000	.9080-01	9080-01	.7480-01	.6570-01	.7480-01	.1611-02	.1329-02	.1563-02	.1563-02	.9720	6.955	552.3
386	32.000	.60000	833.00	.7970-01	.6570-01	.7730-01	.1415-02	.1166-02	.1372-02	.1372-02	.8530	5.730	552.8
386	32.000	.70000	834.00	.7310-01	.6020-01	.7030-01	.1298-02	.1069-02	.1258-02	.1258-02	.7800	5.959	554.5
386	32.000	.80000	835.00	.5600-01	.4620-01	.5430-01	.9935-03	.8191-03	.9636-03	.9636-03	.5020	4.311	549.9

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

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(RV1838)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	HITAM) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TH DEG. R
386	32.000	.90000	836.00	.3280-01	.2710-01	.3220-01	.5818-03	.4805-03	.5719-03	.3540	2.628	546.4
386	32.000	.95000	837.00	.2780-01	.2300-01	.2750-01	.4939-03	.4080-03	.4880-03	.3010	2.313	545.4
386	32.000	.97500	838.00	.7200-02	.5900-02	.7130-02	.1275-03	.1053-03	.1263-03	.7800-01	.6190	544.9
386	32.000	1.0150	839.00	.1370-01	.1130-01	.1310-01	.2428-03	.2002-03	.2319-03	.1460	1.181	552.6
386	32.000	1.0300	840.00	.6840-01	.5640-01	.6530-01	.1215-02	.1001-02	.1160-02	.7290	5.666	555.3
386	32.000	1.0450	841.00	.1182	.9730-01	.1128	.2098-02	.1728-02	.2003-02	1.255	9.578	557.3
386	45.000	.95000	973.00	.2000-03	.2000-03	.2030-03	.3910-05	.3239-05	.3910-05	.2000-02	.1800-01	536.2
386	45.000	.97500	978.00	.5000-03	.4000-03	.5030-03	.8837-05	.7321-05	.8837-05	.5000-02	.4100-01	535.8
386	75.000	.97500	977.00	.2000-03	.2000-03	.2030-03	.3802-05	.3150-05	.3802-05	.2000-02	.1800-01	535.7
386	85.000	.97500	976.00	.7000-03	.6000-03	.7030-03	.1184-04	.9813-05	.1184-04	.7000-02	.5500-01	535.3
386	180.00	.10000-01	59.000	.1922	.1569	.1932	.3376-02	.2786-02	.3376-02	2.046	15.15	549.4
386	180.00	.25000-01	60.000	.5430-01	.4490-01	.5430-01	.9635-03	.7967-03	.9635-03	.5910	4.249	542.3
386	180.00	.50000-01	61.000	.2580-01	.2130-01	.2530-01	.4573-03	.3784-03	.4573-03	.2810	1.794	540.2
386	180.00	.75000-01	62.000	.1400-01	.1150-01	.1430-01	.2477-03	.2050-03	.2477-03	.1530	.9740	539.3
386	180.00	.10000+00	63.000	.9000-02	.7500-02	.9030-02	.1598-03	.1323-03	.1598-03	.9900-01	.6480	538.4
386	180.00	.12500	64.000	.8600-02	.7100-02	.8630-02	.1527-03	.1264-03	.1527-03	.9400-01	.6590	537.8
386	180.00	.15000	65.000	.1120-01	.9200-02	.1120-01	.1983-03	.1642-03	.1983-03	.1230	.8570	536.8
386	180.00	.16000	66.000	.3740-01	.3100-01	.3740-01	.6641-03	.5499-03	.6641-03	.4110	2.294	537.2
386	180.00	.17000	67.000	.5780-01	.4780-01	.5780-01	.1026-02	.8491-03	.1026-02	.6320	3.528	539.5
386	180.00	.20000	69.000	.1660-01	.1380-01	.1650-01	.2955-03	.2447-03	.2955-03	.1830	1.136	536.5
386	180.00	.40100	72.000	.4000-02	.3300-02	.4030-02	.7026-04	.5820-04	.7026-04	.4400-01	.3710	535.9
386	180.00	.50000	73.000	.5400-02	.4500-02	.5430-02	.9551-04	.7911-04	.9551-04	.5900-01	.5040	536.1
386	180.00	.60100	74.000	.5400-02	.4500-02	.5430-02	.9609-04	.7959-04	.9609-04	.5900-01	.4910	536.2
386	180.00	.70100	75.000	.6000-02	.5000-02	.6030-02	.1073-03	.8889-04	.1073-03	.6700-01	.5320	535.4

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B39)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = 15.00 SPOBRK = 40.00  
 BOFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
370	7.940	.9593	30.02	.0000	180.0	208.8	.2200-01	1323.	97.20	.9910	3836.	.1939-04
371	7.940	.9653	30.01	.0000	180.0	212.6	.2300-01	1324.	97.30	1.009	3873.	.1972-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
370	.7826-07	.2453-01	0.0175
371	.7833-07	.2475-01	.4112-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(970) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(14H) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWDT DEG. R /SEC	TH DEG. R
370	.00000	.00000	1.0000	.7328	.6017	.6318	.1797-01	.1476-01	.1549-01	10.91	59.55	583.7
370	.00000	.50000-02	2.0000	.7434	.6093	6128	.1823-01	.1494-01	.1503-01	10.96	74.63	589.2
370	.00000	.10000-01	3.0000	.6155	.5082	5230	.1503-01	.1241-01	.1283-01	9.249	61.39	577.8
370	.00000	.30000-01	5.0000	.2887	.2391	2614	.7081-02	.5865-02	.6411-02	4.517	25.05	552.7
370	.00000	.40000-01	6.0000	.2379	.1972	2183	.5834-02	.4836-02	.5353-02	3.739	20.77	549.5
370	.00000	.50000-01	7.0000	.2253	.1864	2086	.5525-02	.4572-02	.5115-02	3.506	23.53	555.9
370	.00000	.60000-01	8.0000	.2245	.1860	2094	.5507-02	.4561-02	.5137-02	3.513	22.26	552.6
370	.00000	.70000-01	9.0000	.1962	.1625	1843	.4813-02	.3955-02	.4521-02	3.062	21.21	554.3
370	.00000	.80000-01	10.000	.1593	.1325	1511	.3222-02	.3260-02	.3706-02	2.508	17.40	551.1
370	.00000	.90000-01	11.000	.1476	.1224	1400	.3521-02	.3002-02	.3435-02	2.321	14.74	549.4
370	.00000	.10000-00	12.000	.1359	.1127	1294	.3333-02	.2763-02	.3174-02	2.138	12.84	549.2
370	.00000	.12000	14.000	.1176	.9760-01	1126	.2934-02	.2332-02	.2761-02	1.958	10.34	546.3
370	.00000	.13000	15.000	.1123	.9320-01	1077	.2753-02	.2265-02	.2641-02	1.773	10.38	547.2
370	.00000	.14000	16.000	.1050	.8710-01	1038	.2575-02	.2126-02	.2472-02	1.656	10.53	547.2
370	.00000	.16000	18.000	.1070	.8370-01	1029	.2623-02	.2175-02	.2524-02	1.685	10.41	548.1
370	.00000	.17000	19.000	.1074	.8310-01	1035	.2633-02	.2184-02	.2538-02	1.691	10.74	548.8
370	.00000	.18000	20.000	.1051	.8220-01	1014	.2573-02	.2138-02	.2465-02	1.655	10.51	548.9
370	.00000	.19000	21.000	.1111	.9220-01	1073	.2723-02	.2260-02	.2631-02	1.754	11.15	546.9
370	.00000	.20000	22.000	.9910-01	.8220-01	9580-01	.2431-02	.2015-02	.2350-02	1.560	9.908	548.7

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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CH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1838)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(970) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QOOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
370	.00000	.22500	23.000	.9230-01	.7660-01	.8950-01	.2265-02	.1878-02	.2195-02	1.455	9.244	548.0
370	.00000	.25000	801.00	.8970-01	.7440-01	.8710-01	.2200-02	.1824-02	.2136-02	1.413	8.979	548.0
370	.00000	.30000	802.00	.8350-01	.6920-01	.8110-01	.2048-02	.1698-02	.2092-02	1.316	8.357	549.8
370	.00000	.35000	803.00	.8790-01	.7280-01	.8530-01	.2155-02	.1786-02	.2092-02	1.381	8.763	548.8
370	.00000	.40000	804.00	.8230-01	.6830-01	.7930-01	.2019-02	.1674-02	.1960-02	1.296	8.469	549.1
370	.00000	.45000	805.00	.7280-01	.6030-01	.7060-01	.1785-02	.1479-02	.1732-02	1.145	7.708	549.8
370	.00000	.50000	806.00	.7060-01	.5870-01	.6880-01	.1737-02	.1440-02	.1686-02	1.113	7.727	551.2
370	.00000	.55000	807.00	.6700-01	.5550-01	.6500-01	.1643-02	.1361-02	.1594-02	1.050	7.770	550.9
370	.00000	.60000	808.00	.6120-01	.5070-01	.5940-01	.1500-02	.1243-02	.1456-02	.9590	7.101	552.2
370	.00000	.65000	809.00	.5710-01	.4730-01	.5540-01	.1400-02	.1159-02	.1359-02	.8930	6.607	552.5
370	.00003	.70000	810.00	.5420-01	.4490-01	.5260-01	.1329-02	.1101-02	.1290-02	.8480	6.485	553.6
370	.00000	.75000	811.00	.5540-01	.4590-01	.5380-01	.1359-02	.1125-02	.1319-02	.8660	6.404	553.3
370	.00000	.80000	812.00	.5840-01	.4840-01	.5670-01	.1432-02	.1186-02	.1390-02	.9120	6.742	551.3
370	.00000	.85000	813.00	.5540-01	.4590-01	.5440-01	.1360-02	.1126-02	.1334-02	.8670	6.626	549.5
370	.00000	.90000	814.00	.5150-01	.4270-01	.5070-01	.1264-02	.1047-02	.1243-02	.8080	5.784	550.1
370	.00000	.92500	815.00	.2630-01	.2350-01	.2790-01	.6942-03	.5755-03	.6843-03	.4450	3.662	548.8
370	.00000	.95000	816.00	.1940-01	.1240-01	.1470-01	.4658-03	.3033-03	.3515-03	.2350	1.932	550.1
370	.00000	.97500	817.00	.1940-01	.1610-01	.1920-01	.4757-03	.3942-03	.4713-03	.2050	2.506	559.8
370	.00000	1.0150	818.00	.1370-01	.1130-01	.1360-01	.3367-03	.2783-03	.3345-03	.2120	1.564	561.8
370	.00003	1.0300	819.00	.9240-01	.7640-01	.9180-01	.2267-02	.1873-02	.2253-02	1.425	10.49	574.0
370	.00000	1.0500	821.00	.2090	.1721	.2077	.5127-02	.4221-02	.5094-02	3.161	26.18	538.7
370	.00000	1.1500	89.000	.1140-01	.9400-02	.1140-01	.2788-03	.2317-03	.2788-03	.1820	1.067	539.8
370	.00000	1.2000	91.000	.1480-01	.1230-01	.1480-01	.3622-03	.3010-03	.3622-03	.2350	1.462	553.3
370	.00000	1.3000	823.00	.8430-01	.6930-01	.8180-01	.2068-02	.1712-02	.2007-02	1.318	10.43	553.6
370	.00000	1.4000	824.00	.7710-01	.6380-01	.7480-01	.1891-02	.1566-02	.1835-02	1.204	9.537	553.4
370	.00000	1.5000	825.00	.5200-01	.4300-01	.5040-01	.1274-02	.1055-02	.1237-02	.8120	7.201	554.9
370	.00000	1.6000	826.00	.6790-01	.5620-01	.6590-01	.1665-02	.1378-02	.1615-02	1.058	7.614	554.1
370	.00000	1.7000	827.00	.5670-01	.4700-01	.5510-01	.1392-02	.1152-02	.1351-02	.8860	6.544	552.3
370	.00000	1.8000	828.00	.4330-01	.3590-01	.4250-01	.1061-02	.8787-03	.1043-02	.6770	5.365	551.9
370	.00000	1.9000	971.00	.6140-01	.5030-01	.6140-01	.1506-02	.1247-02	.1506-02	.9620	7.113	555.4
370	.00000	2.0000	975.00	.1135	.9400-01	.1135	.2784-02	.2305-02	.2784-02	1.769	13.06	541.8
370	.00000	2.1000	980.00	.3720-01	.3090-01	.3720-01	.9113-03	.7570-03	.9113-03	.5910	4.393	539.6
370	.00000	2.2000	93.000	.1660-01	.8800-02	.1050-01	.2597-03	.2158-03	.2597-03	.1690	1.048	544.4
370	.00000	2.3000	970.00	.1920-01	.1600-01	.1920-01	.4721-03	.3919-03	.4721-03	.3050	5.533	540.6
370	.00000	2.4000	974.00	.4700-01	.3900-01	.4700-01	.1153-02	.9574-03	.1153-02	.7450	2.265	554.1
370	.00000	2.5000	979.00	.2280-01	.1900-01	.2280-01	.5601-03	.4654-03	.5601-03	.3640	2.708	552.6
370	.00000	2.6000	831.00+10	.1041	.8520-01	.1041	.2552-02	.2114-02	.2477-02	1.628	11.29	554.9
370	.00000	2.7000	632.00	.8790-01	.7280-01	.8530-01	.2156-02	.1785-02	.2032-02	1.372	9.811	557.4
370	.00000	2.8000	833.00	.7430-01	.6150-01	.7240-01	.1822-02	.1508-02	.1768-02	1.158	7.773	554.1
370	.00000	2.9000	344.00	.5650-01	.4670-01	.5480-01	.1386-02	.1146-02	.1345-02	.8770	6.695	554.1
370	.00000	3.0000	825.00	.5130-01	.4250-01	.4980-01	.1258-02	.1042-02	.1221-02	.8010	5.726	551.4
370	.00000	3.1000	836.00	.3640-01	.3010-01	.3580-01	.8924-03	.7394-03	.8774-03	.5700	4.220	551.4
370	.00000	3.2000	837.00	.3330-01	.2760-01	.3290-01	.8156-03	.6757-03	.8061-03	.5210	3.988	551.6

REPRODUCIBILITY OF  
ORIGINAL PAGE IS POOR



DATE 25 AUG 76			AEDC VKF V41B-57A (OH-49B) COLLATION DECK			OH-49B (AEDC V41B-57A) ORBITER FUSELAGE			PACF 543 (R'1838)			
RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19T0 BTU/ R FT2SEC	H1T0 BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TH DEG. R
370	32.000	.97500	838.00	.1310-01	.1090-01	.1300-01	.3223-03	.2572-03	.3194-03	.2060	1.638	550.0
370	32.000	1.0150	839.00	.2810-01	.2320-01	.2699-01	.6897-03	.5692-03	.6568-03	.4310	3.456	565.3
370	32.000	1.0300	840.00	.1326	.1093	.1266	.3252-02	.2681-02	.3106-02	2.021	15.60	569.1
370	32.000	1.0450	841.00	.1985	.1635	.1895	.4868-02	.4010-02	.4647-02	3.008	22.78	572.7
370	45.000	.92500	969.00	.9000-03	.8000-03	.9000-03	.2293-04	.1906-04	.2593-04	.1500-01	.1110	538.6
370	45.000	.97500	978.00	.2000-03	.2000-03	.2000-03	.5335-05	.4435-05	.5335-05	.3000-02	.2600-01	538.9
370	85.000	.97500	976.00	.2400-02	.2000-02	.2.00-02	.5966-04	.4958-04	.5966-04	.3900-01	.2890	539.7
370	180.00	.10000-01	59.000	.1837	.1523	.1837	.4506-02	.3735-02	.4506-02	2.888	21.39	549.6
370	180.00	.25000-01	60.000	.5210-01	.4330-01	.52.0-01	.1278-02	.1061-02	.1278-02	.8290	5.965	541.6
370	180.00	.50000-01	61.000	.2330-01	.1940-01	.2330-01	.5719-03	.4753-03	.5719-03	.3720	2.377	539.1
370	180.00	.75000-01	62.000	.1210-01	.1010-01	.1210-01	.2973-03	.2472-03	.2973-03	.1940	1.237	538.7
370	180.00	.10000+00	63.000	.9200-02	.7700-02	.9200-02	.2266-03	.1884-03	.2266-03	.1480	.9700	538.7
370	180.00	.12500	64.000	.9400-02	.7800-02	.9400-02	.2311-03	.1921-03	.2311-03	.1510	1.051	538.8
370	180.00	.15000	65.000	.1380-01	.1150-01	.1380-01	.3382-03	.2811-03	.3382-03	.2200	1.537	539.3
370	180.00	.16000	66.000	.3910-01	.3160-01	.38.0-01	.9342-03	.7758-03	.9342-03	.6050	3.374	542.6
370	180.00	.17000	67.000	.7560-01	.6280-01	.7560-01	.1855-02	.1539-02	.1855-02	1.198	6.668	544.8
370	180.00	.20000	69.000	.1540-01	.1280-01	.1540-01	.3780-03	.3141-03	.3780-03	.2460	1.523	540.3
370	180.00	.40100	72.000	.5300-02	.4400-02	.5300-02	.1293-03	.1075-03	.1293-03	.8400-01	.7150	540.3
370	180.00	.50000	73.000	.8300-02	.6900-02	.8300-02	.2024-03	.1682-03	.2024-03	.1320	1.120	540.1
370	180.00	.60100	74.000	.6500-02	.5400-02	.6500-02	.1586-03	.1318-03	.1586-03	.1930	.8490	540.5
370	180.00	.70100	75.000	.7500-02	.6200-02	.7500-02	.1839-03	.1528-03	.1839-03	.1200	.9530	540.3

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGEPAGE 544  
(RV1839)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 15.00 SPOBRK = 40.00  
BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITION\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
388	7.900	.5347	40.09	.0000	180.0	111.2	.1200-01	1287.	95.40	.5400	3781.	.1088-04
389	7.900	.5360	40.05	.0000	180.0	111.3	.1200-01	1285.	95.30	.5400	3775.	.1088-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR R =
388	7.683-07	.1801-01	0.0175
389	7.675-07	.1802-01	.5525-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(180) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DT/DOT DEG. R /SEC	TW DEG. R
388	.03000	.00000	1.0000	.6125	.5044	.5481	.1103-01	.9085-02	.9872-02	6.621	36.62	557.8
388	.00100	.50000-02	2.0000	.7093	.5828	.5828	.1278-01	.1050-01	.1050-01	7.572	52.16	565.2
388	.00000	.10000-01	3.0000	.6239	.5132	.5191	.1124-01	.9343-02	.9350-02	6.702	44.85	561.5
388	.00000	.20000-01	4.0000	.4488	.3703	.3849	.8083-02	.6670-02	.5332-02	4.13	27.25	550.6
388	.00000	.30000-01	5.0000	.3479	.2873	.3033	.8266-02	.5174-02	.5463-02	3.820	21.23	548.3
388	.00000	.40000-01	6.0000	.2945	.2433	.2597	.5304-02	.4382-02	.4678-02	3.242	18.04	546.7
388	.00000	.50000-01	7.0000	.2865	.2364	.2547	.5162-02	.4258-02	.4586-02	3.129	21.04	551.8
388	.00000	.60000-01	8.0000	.2912	.2404	.2605	.5245-02	.4329-02	.4691-02	3.191	20.25	549.6
388	.00000	.70000-01	9.0000	.2483	.2048	.2235	.4471-02	.3689-02	.4025-02	2.714	18.83	550.9
388	.00000	.80000-01	10.000	.2011	.1660	.1820	.4623-02	.2990-02	.3278-02	2.202	15.28	550.2
388	.00000	.90000-01	11.000	.1966	.1624	.1786	.3542-02	.2325-02	.3217-02	2.160	13.72	548.0
388	.00000	.10000+00	12.000	.1801	.1487	.1642	.3244-02	.2679-02	.2957-02	1.979	11.89	547.8
388	.00000	.12000	14.000	.1637	.1353	.1500	.2948-02	.2437-02	.2702-02	1.806	10.05	545.4
388	.00000	.13000	15.000	.1549	.1280	.1422	.2790-02	.2306-02	.2561-02	1.708	10.00	545.9
388	.00000	.14000	16.000	.1488	.1230	.1368	.2681-02	.2215-02	.2463-02	1.640	10.43	546.0
388	.00000	.16000	18.000	.1573	.1299	.1448	.2853-02	.2340-02	.2609-02	1.732	10.70	546.6
388	.00000	.17000	19.000	.1501	.1240	.1383	.2703-02	.2233-02	.2492-02	1.651	10.49	547.1
388	.00000	.18000	20.000	.1497	.1237	.1381	.2697-02	.2228-02	.2488-02	1.647	10.47	547.1
388	.00000	.19000	21.000	.1561	.1290	.1442	.2811-02	.2324-02	.2598-02	1.723	10.96	544.9

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER: FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
388	.00000	.20000	22.000	.1441	.1190	.1333	.2595-02	.2144-02	.2400-02	1.586	10.08	546.8
388	.00000	.22500	23.000	.1358	.1122	.1260	.2446-02	.2021-02	.2269-02	1.497	9.520	545.9
388	.00000	.25000	801.00	.1298	.1072	.1205	.2337-02	.1931-02	.2171-02	1.430	9.093	546.0
388	.00000	.30000	802.00	.1205	.9950-01	.1119	.2170-02	.1793-02	.2015-02	1.327	8.434	546.5
388	.00000	.35000	803.00	.1245	.1028	.1156	.2242-02	.1631-02	.2082-02	1.366	8.678	548.4
388	.00000	.40000	804.00	.1201	.9920-01	.1115	.2163-02	.1786-02	.2009-02	1.318	8.621	548.3
388	.00000	.45000	805.00	.1095	.9030-01	.1016	.1972-02	.1627-02	.1831-02	1.198	8.058	550.5
388	.00000	.50000	806.00	.1009	.8330-01	.9370-01	.1818-02	.1500-02	.1688-02	1.104	7.659	550.7
388	.00000	.55000	807.00	.9620-01	.7940-01	.8930-01	.1733-02	.1429-02	.1609-02	1.049	7.761	552.4
388	.00000	.60000	808.00	.8760-01	.7240-01	.8150-01	.1581-02	.1304-02	.1468-02	.9580	7.085	552.0
388	.00000	.65000	809.00	.8350-01	.6880-01	.7750-01	.1504-02	.1240-02	.1355-02	.9090	6.717	553.5
388	.00000	.70000	810.00	.7730-01	.6420-01	.7230-01	.1403-02	.1157-02	.1302-02	.8480	6.410	553.3
388	.00000	.75000	811.00	.7950-01	.6570-01	.7390-01	.1435-02	.1183-02	.1331-02	.8670	6.410	553.3
388	.00000	.80000	812.00	.8320-01	.6860-01	.7720-01	.1499-02	.1236-02	.1391-02	.9070	6.708	552.5
388	.00000	.85000	813.00	.7760-01	.6400-01	.7280-01	.1397-02	.1152-02	.1311-02	.8460	6.475	552.0
388	.00000	.90000	814.00	.7120-01	.5880-01	.6700-01	.1282-02	.1058-02	.1206-02	.7800	5.589	549.6
388	.00000	.92500	815.00	.3380-01	.2799-01	.3180-01	.6081-03	.5022-03	.5735-03	.3710	3.058	547.3
388	.00000	.95000	816.00	.2230-01	.1890-01	.2170-01	.4128-03	.3410-03	.3903-03	.2520	2.079	546.8
388	.00000	.97500	817.00	.2470-01	.2040-01	.2340-01	.4451-03	.3674-03	.4219-03	.2710	2.230	549.2
388	.00000	1.0150	818.00	.1530-01	.1260-01	.1460-01	.2762-03	.2274-03	.2624-03	.1660	1.222	558.1
388	.00000	1.0300	819.00	.1155	.9510-01	.1097	.2080-02	.1713-02	.1976-02	1.247	9.192	558.5
388	.00000	1.0500	821.00	.2502	.2055	.2376	.4506-02	.3701-02	.4279-02	2.665	22.16	566.4
388	.00000	1.1500	89.000	.5000-02	.4100-02	.5000-02	.9010-04	.7468-04	.9010-04	.5600-01	.3400	534.8
388	.00000	2.0000	91.000	.8600-02	.7100-02	.8630-02	.1550-03	.1285-03	.1550-03	.9700-01	.6020	533.6
388	.00000	5.0000-01	90.000	.3800-02	.3200-02	.3800-02	.6902-04	.5722-04	.6902-04	.4300-01	.2610	534.0
388	.00000	.40000	823.00	.1180	.9730-01	.1095	.2126-02	.1753-02	.1973-02	1.287	10.20	552.4
388	.00000	.50000	824.00	.1682	.8920-01	.1004	.1949-02	.1607-02	.1809-02	1.177	9.316	554.2
388	.00000	.60000	825.00	.7430-01	.6120-01	.6890-01	.1338-02	.1102-02	.1241-02	.8060	7.145	555.2
388	.00000	.70000	826.00	.8020-01	.6610-01	.7440-01	.1444-02	.1190-02	.1340-02	.8710	6.431	555.1
388	.00000	.80000	827.00	.8200-01	.6760-01	.7610-01	.1476-02	.1217-02	.1370-02	.8920	6.595	553.5
388	.00000	.90000	828.00	.6420-01	.5300-01	.6040-01	.1157-02	.9546-03	.1088-02	.7030	5.576	550.1
388	.00000	.92500	971.00	.8410-01	.6940-01	.8410-01	.1514-02	.1250-02	.1514-02	.9210	6.820	549.7
388	.00000	.95000	975.00	.1524	.1258	.1524	.2746-02	.2256-03	.2746-02	1.666	12.33	550.9
388	.00000	.97500	980.00	.4870-01	.4033-01	.4870-01	.3771-03	.2266-03	.3771-03	.5450	4.060	536.8
388	.00000	2.0000	93.000	.8800-02	.7300-02	.8800-02	.1579-03	.1309-03	.1579-03	.9900-01	.6130	533.8
388	.00000	.92500	970.00	.3040-01	.2520-01	.3040-01	.5476-03	.4530-03	.5476-03	.3370	2.508	541.9
388	.00000	.95000	974.00	.6470-01	.5360-01	.6470-01	.1166-02	.9647-03	.1166-02	.7190	5.348	541.1
388	.00000	.97500	979.00	.1710-01	.1420-01	.1710-01	.3076-03	.2549-03	.3076-03	.1920	1.429	535.2
388	.00000	.83100+10	832.00	.1376	.1136	.1278	.2080-02	.2045-02	.2301-02	1.256	10.45	550.3
388	.00000	.50000	832.00	.1155	.9530-01	.1072	.2479-02	.1715-02	.1930-02	1.256	8.985	553.8
388	.00000	.60000	833.00	.1029	.8480-01	.9550-01	.1854-02	.1527-02	.1720-02	1.115	7.484	556.2
388	.00000	.70000	834.00	.8760-01	.7220-01	.8130-01	.1577-02	.1300-02	.1464-02	.9500	7.258	555.5
388	.00000	.80000	835.00	.7550-01	.6230-01	.7010-01	.1361-02	.1122-02	.1263-02	.8230	5.884	553.3

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## OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9T0) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TH DEG. R
388	32.000	.90000	835.00	.5310-01	.4390-01	.5000-01	9572-03	7902-03	9003-03	.5830	4.316	549.1
388	32.000	.95000	837.00	.4660-01	.3850-01	.4410-01	8393-03	6930-03	7936-03	.5110	3.919	548.7
388	32.000	.97500	838.00	.1950-01	.1610-01	.1850-01	3513-03	2902-03	3331-03	.2150	1.708	546.2
388	32.000	1.0150	839.00	.4130-01	.3400-01	.3770-01	7438-03	6119-03	6786-03	.4440	3.565	561.1
388	32.000	1.0300	840.00	.1567	.1289	.1431	2822-02	2321-02	2578-02	1.681	13.02	562.1
388	32.000	1.0450	841.00	.2095	.1724	.1914	3773-02	3104-02	3447-02	2.253	17.17	560.6
388	45.000	.92500	969.00	.2400-02	.2000-02	.2400-02	4333-04	3590-04	4333-04	.2700-01	.2010	536.1
388	45.000	.95000	973.00	.7000-03	.6000-03	.7000-03	1197-04	9922-05	1197-04	.7000-02	.5600-01	534.8
388	75.000	.97500	973.00	.1000-02	.8000-03	.1000-02	1774-04	1471-04	1774-04	.1100-01	.8300-01	534.1
388	85.000	.97500	976.00	.5000-03	.4000-03	.5000-03	9483-05	7882-05	9483-05	.6000-02	.4400-01	534.1
388	180.00	.10000-01	59.000	.1135	.1300-02	.1600-02	2807-04	2358-04	2807-04	.1800-01	.1310	533.9
388	180.00	.25000-01	60.000	.3100-01	.2570-01	.3100-01	2044-02	1691-02	2044-02	1.259	9.355	542.1
388	180.00	.50000-01	61.000	.1510-01	.1250-01	.1510-01	5586-03	4625-03	5586-03	.3460	2.494	538.5
388	180.00	.75000-01	62.000	.1110-01	.9200-02	.1110-01	2717-03	2250-03	2717-03	.1690	1.077	537.2
388	180.00	.10000-00	63.000	.1200-01	.1000-01	.1200-01	2170-03	1798-03	2170-03	.1250	.7960	536.5
388	180.00	.12500	64.000	.1640-01	.1360-01	.1640-01	2946-03	2441-03	2946-03	.1350	.8870	536.3
388	180.00	.15000	65.000	.2370-01	.1960-01	.2370-01	4260-03	3530-03	4260-03	.1830	1.281	535.8
388	180.00	.16000	66.000	.5660-01	.4700-01	.5660-01	1022-02	8468-03	1022-02	.2650	1.853	535.8
388	180.00	.17000	67.000	.7720-01	.6390-01	.7720-01	1390-02	1151-02	1022-02	.6340	3.544	537.6
388	180.00	.20000	69.000	.1680-01	.1390-01	.1680-01	3023-03	2505-03	3023-03	.8610	4.807	538.5
388	180.00	.40100	72.000	.4000-02	.3300-02	.4000-02	7222-04	5986-04	7222-04	.1840	1.170	535.2
388	180.00	.50000	73.000	.2800-02	.2300-02	.2800-02	4974-04	4123-04	4974-04	.4500-01	.3840	534.6
388	180.00	.60100	74.000	.4000-02	.3300-02	.4000-02	7237-04	5999-04	7237-04	.4500-01	.3730	534.4
388	180.00	.70100	75.000	.6100-02	.5000-02	.6100-02	1091-03	9047-04	1091-03	.6800-01	.5450	533.6

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = 15.00 SPD8RK = 40.00  
BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L 10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
372	7.940	.9768	40.10	.0000	180.0	212.4	.2300-01	1314.	96.50	1.008	3823.	.1986-04
373	7.940	.9782	40.10	.0000	180.0	210.7	.2300-01	1305.	95.90	1.000	3811.	.1983-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
372	.7772-07	.2471-01	.0175	0.0175
373	.7723-07	.2458-01	.4095-01	.4096-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AM) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DT/DT DEG. R /SEC	TH DEG. R
372	.00000	.00000	1.0000	.6182	.5096	.5536	.1527-01	.1259-01	.1368-01	9.415	51.87	555.8
372	.00000	.50000-02	2.0000	.7070	.5811	.5811	.1747-01	.1436-01	.1436-01	10.60	72.60	575.7
372	.00000	.10000-01	3.0000	.6240	.5137	.5196	.542-01	.1259-01	.1284-01	9.431	62.83	570.5
372	.00000	.20000-01	4.0000	.4102	.3392	.3524	.013-01	.8381-02	.8707-02	6.362	35.24	554.6
372	.00000	.30000-01	5.0000	.3354	.2775	.2928	.8286-02	.6855-02	.7234-02	5.215	28.92	552.9
372	.00000	.40000-01	6.0000	.2885	.2388	.2548	.7128-02	.5901-02	.6294-02	4.504	25.01	550.4
372	.00000	.50000-01	7.0000	.2783	.2299	.2475	.6875-02	.5680-02	.6114-02	4.294	28.79	557.7
372	.00000	.60000-01	8.0000	.2834	.2344	.2538	.7002-02	.5791-02	.6270-02	4.396	27.83	554.6
372	.00000	.70000-01	9.0000	.2494	.2061	.2247	.6161-02	.5092-02	.5551-02	7.355	26.67	556.6
372	.00000	.80000-01	10.000	.2037	.1685	.1845	.5032-02	.4162-02	.4558-02	3.165	21.93	553.2
372	.00000	.90000-01	11.000	.1927	.1595	.1752	.4700-02	.3941-02	.4329-02	3.008	19.08	550.5
372	.00000	.10000+00	12.000	.1774	.1469	.1619	.4383-02	.3629-02	.4001-02	2.768	16.61	550.8
372	.00000	.12000	14.000	.1668	.1381	.1530	.4120-02	.3412-02	.3780-02	2.610	14.50	549.0
372	.00000	.13000	15.000	.1559	.1290	.1432	.3851-02	.3188-02	.3558-02	2.435	14.24	549.8
372	.00000	.14000	16.000	.1465	.1213	.1347	.3619-02	.2997-02	.3329-02	2.289	14.52	550.0
372	.00000	.16000	18.000	.1523	.1260	.1403	.3762-02	.3114-02	.3467-02	2.374	14.64	551.1
372	.00000	.17000	19.000	.1503	.1244	.1386	.3713-02	.3073-02	.3425-02	2.341	14.64	551.8
372	.00000	.18000	20.000	.1495	.1238	.1381	.3695-02	.3058-02	.3411-02	2.330	14.77	551.7
372	.00000	.19000	21.000	.1458	.1207	.1348	.3601-02	.2983-02	.3330-02	2.281	14.49	548.8

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) CREITER FUSELAGE

(RV1839)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9T) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TM DEG. R
372	.00000	.20000	22.000	.1431	.1184	.1324	.3535-02	.2926-02	.3272-02	2.230	14.14	551.3
372	.00000	.22500	23.000	.1323	.1096	.1228	.3269-02	.2707-02	.3034-02	2.068	13.12	549.8
372	.00000	.25000	801.00	.1294	.1072	.1203	.3198-02	.2648-02	.2973-02	2.022	12.83	549.9
372	.00000	.30000	802.00	.1203	.9950-01	.1119	.2973-02	.2461-02	.2764-02	1.879	11.92	550.2
372	.00000	.35000	803.00	.1280	.1059	.1150	.3163-02	.2617-02	.2940-02	1.991	12.62	552.8
372	.00000	.40000	804.00	.1219	.1008	.1133	.3011-02	.2491-02	.2798-02	1.897	12.38	552.0
372	.00000	.45000	805.00	.1074	.8880-01	.0950-01	.2653-02	.2195-02	.2465-02	1.869	11.21	553.2
372	.00000	.50000	806.00	.9740-01	.8050-01	.9050-01	.2407-02	.1991-02	.2236-02	1.514	10.49	553.2
372	.00000	.55000	807.00	.9240-01	.7640-01	.8550-01	.2222-02	.1877-02	.2121-02	1.432	10.57	554.9
372	.00000	.60000	808.00	.8480-01	.7010-01	.7850-01	.2094-02	.1687-02	.1946-02	1.314	9.702	554.9
372	.00000	.65000	809.00	.7750-01	.6440-01	.7240-01	.1925-02	.1590-02	.1783-02	1.203	8.879	557.0
372	.00000	.70000	810.00	.7550-01	.6330-01	.7110-01	.1892-02	.1563-02	.1758-02	1.181	9.011	558.0
372	.00000	.75000	811.00	.7790-01	.6440-01	.7240-01	.1925-02	.1590-02	.1783-02	1.202	8.660	558.3
372	.00000	.80000	812.00	.8300-01	.6830-01	.7710-01	.2050-02	.1694-02	.1904-02	1.279	9.433	558.3
372	.00000	.85000	813.00	.7810-01	.6450-01	.7330-01	.1930-02	.1594-02	.1811-02	1.204	8.181	558.4
372	.00000	.90000	814.00	.7340-01	.6050-01	.6900-01	.1812-02	.1498-02	.1705-02	1.134	8.102	556.3
372	.00000	.95000	815.00	.5600-01	.4200-01	.4800-01	.1256-02	.1038-02	.1185-02	.7870	6.461	555.4
372	.00000	.95000	815.00	.2590-01	.2140-01	.2450-01	.6398-03	.5289-03	.6051-03	.4010	3.289	555.6
372	.00000	.97500	817.00	.2590-01	.2390-01	.2740-01	.7150-03	.5904-03	.6778-03	.4450	3.642	560.0
372	.00000	1.0150	818.00	.8270-01	.6790-01	.7850-01	.2042-02	.1678-02	.1939-02	1.235	9.018	579.1
372	.00000	1.0300	819.00	.2732	.2235	.2564	.6725-02	.5523-02	.6395-02	4.057	29.60	579.1
372	.00000	1.0550	821.00	.3309	.2709	.3139	.8175-02	.6632-02	.7754-02	4.845	39.81	583.7
372	.00000	1.5000	83.000	.4800-02	.4000-02	.4800-02	.1185-03	.9945-04	.1185-03	.7600-01	.4620	535.7
372	.00000	2.0000	91.000	.8300-02	.6930-02	.8300-02	.2051-03	.1705-03	.2051-03	.1330	.8260	534.5
372	.00000	50000-01	90.000	.9200-02	.7600-02	.9200-02	.2262-03	.1830-03	.2262-03	.1460	.8940	535.9
372	.00000	.40000	823.00	.1150	.9530-01	.1078	.2857-02	.2368-02	.2663-02	1.790	14.14	558.0
372	.00000	.50000	824.00	.1051	.8680-01	.9760-01	.2597-02	.2145-02	.2412-02	1.619	12.78	559.0
372	.00000	.60000	825.00	.5600-01	.5550-01	.6350-01	.1691-02	.1397-02	.1571-02	1.055	9.329	558.7
372	.00000	.70000	826.00	.8150-01	.6730-01	.7570-01	.2013-02	.1622-02	.1869-02	1.253	9.232	559.8
372	.00000	.80000	827.00	.7950-01	.6530-01	.7350-01	.1964-02	.1622-02	.1824-02	1.224	9.016	559.4
372	.00000	.90000	828.00	.6420-01	.5310-01	.6040-01	.1597-02	.1311-02	.1493-02	.9900	7.824	558.1
372	.00000	.95000	971.00	.1298	.1071	.1259	.3207-02	.2646-02	.3207-02	1.986	14.61	562.9
372	.00000	.95000	975.00	.1553	.1230	.1553	.3855-02	.3185-02	.3855-02	2.411	17.79	556.9
372	.00000	.97500	950.00	.5210-01	.4300-01	.5210-01	.1297-02	.1058-02	.1267-02	.8250	6.134	541.2
372	.00000	20000	93.000	.1000-01	.8300-02	.1000-01	.2478-03	.2060-03	.2478-03	.1600	.9970	535.2
372	.00000	.92500	970.00	.7310-01	.6050-01	.7310-01	.1806-02	.1494-02	.1806-02	1.134	8.372	554.8
372	.00000	.95000	974.00	.6500-01	.5470-01	.6500-01	.1631-02	.1333-02	.1631-02	1.040	7.722	544.6
372	.00000	.97500	979.00	.1630-01	.1350-01	.1630-01	.4054-03	.3367-03	.4054-03	.2610	1.944	538.4
372	.00000	.98000	980.00+10	.1359	.1123	.1252	.3355-02	.2774-02	.3117-02	2.104	14.56	555.3
372	.00000	.98000	980.00	.1175	.9700-01	.1021	.2502-02	.2397-02	.2695-02	1.810	12.91	558.7
372	.00000	.98000	980.00	.1031	.8510-01	.9570-01	.2547-02	.2103-02	.2363-02	1.585	10.62	560.0
372	.00000	.98000	980.00	.7950-01	.6520-01	.7340-01	.1932-02	.1612-02	.1813-02	1.213	9.235	561.3
372	.00000	.98000	980.00	.7280-01	.6010-01	.6750-01	.1793-02	.1485-02	.1671-02	1.119	7.974	560.5

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(1AW) BTU/ R F12SEC	QOOT BTU/ F12SEC	OTMOT DEG. R /SEC	TW DEG. R
372	32.000	.90000	835.00	.6090-01	.5030-01	.5730-01	.1504-02	.1243-02	.1415-02	.9390	6.927	557.9
372	32.000	.95000	837.00	.6850-01	.5550-01	.6480-01	.1693-02	.1393-02	.1601-02	1.055	8.046	559.1
372	32.000	.97500	838.00	.6260-01	.5170-01	.5930-01	.1546-02	.1277-02	.1466-02	.9630	7.605	559.4
372	32.000	1.0150	839.00	.1482	.1215	.1352	.1553-02	.1301-02	.1339-02	2.182	17.30	585.7
372	32.000	1.0300	840.00	.2923	.2336	.2655	.7321-02	.5919-02	.6553-02	4.313	33.03	595.1
372	32.000	1.0450	841.00	.2934	.2455	.2731	.7397-02	.6065-02	.6747-02	4.426	33.32	584.0
372	45.000	.92000	959.00	.5200-02	.4300-02	.5200-02	.1293-03	.1074-03	.1293-03	.8300-01	.6210	537.7
372	45.000	.95000	973.00	.6000-03	.5000-03	.6000-03	.1446-04	.1202-04	.1446-04	.9000-02	.7000-01	535.2
372	45.000	.97500	978.00	.7000-03	.5000-03	.7000-03	.1531-04	.1255-04	.1531-04	.1100-01	.7900-01	534.7
372	75.000	.97500	977.00	.3000-03	.2000-03	.3000-03	.6825-05	.5574-05	.6825-05	.4000-02	.3300-01	534.7
372	85.000	.97500	976.00	.1400-02	.1100-02	.1400-02	.3362-04	.2795-04	.3362-04	.2200-01	.1620	534.6
372	160.00	.10000-01	591.00	.1285	.8890-01	.1065	.6890-02	.2222-02	.2680-02	1.797	12.67	545.3
372	160.00	.25000-01	601.00	.2810-01	.2330-01	.2810-01	.6944-03	.5134-03	.6944-03	.4460	3.208	540.6
372	160.00	.50000-01	611.00	.1350-01	.1150-01	.1350-01	.3411-03	.2233-03	.3411-03	.2190	1.400	539.0
372	180.00	.75000-01	621.00	.1090-01	.9000-02	.1090-01	.2693-03	.2229-03	.2693-03	.1730	1.104	537.9
372	180.00	.10000+00	631.00	.1470-01	.1220-01	.1470-01	.3016-03	.3016-03	.3016-03	.2340	1.539	537.9
372	180.00	.12500	641.00	.2250-01	.1870-01	.2250-01	.5554-03	.4614-03	.5554-03	.3380	2.532	537.4
372	180.00	.15000	651.00	.3110-01	.2530-01	.3110-01	.7673-03	.6375-03	.7673-03	.4950	3.458	537.2
372	180.00	.16000	661.00	.7950-01	.6530-01	.7950-01	.1953-02	.1629-02	.1953-02	1.259	7.026	540.8
372	180.00	.17000	671.00	.1016	.8430-01	.1016	.2510-02	.2093-02	.2510-02	1.610	8.979	541.0
372	180.00	.20000	691.00	.1920-01	.1600-01	.1920-01	.4742-03	.3942-03	.4742-03	.3070	1.906	535.6
372	180.00	.49100	721.00	.4200-02	.3500-02	.4200-02	.1046-03	.8334-04	.1046-03	.6800-01	.5750	534.1
372	180.00	.50000	731.00	.3600-02	.3000-02	.3600-02	.8777-04	.7298-04	.8777-04	.5700-01	.4860	534.0
372	180.00	.52100	741.00	.4300-02	.4100-02	.4300-02	.1215-03	.1010-03	.1215-03	.7900-01	.6510	533.8
372	180.00	.70100	751.00	.5300-02	.4400-02	.5300-02	.1302-03	.1082-03	.1302-03	.8400-01	.6760	533.4

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = -7.000 SPDBRK = 40.00  
 BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PSIA	PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
390	7.900	.5489	19.99	.0000	180.0	113.0	.1300-01	1278.	94.80	.5490	3768.	.1111-04
391	7.900	.5493	19.97	.0000	180.0	113.1	.1300-01	1278.	94.80	.5490	3769.	.1112-04
392	7.900	.5402	19.99	.0000	180.0	111.5	.1200-01	1281.	95.00	.5420	3773.	.1095-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	4REF BTU/ R FT2SEC	ST P <sub>0</sub> P =
390	.7630-07	.0175	.5458-01	0.0175
391	.7631-07	.0175	.5455-01	0.0175
392	.7643-07	.0175	.5500-01	0.0175

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	I HETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
390	.00000	.00000	1.0000	.9143	.7485	.7655	.1658-01	.1357-01	.1368-01	9.566	52.51	573.0
390	.00000	.50000-02	2.0000	.7455	.6105	.6243	.1352-01	.1107-01	.1132-01	7.811	53.62	572.1
390	.00000	.10000-01	3.0000	.5609	.4611	.4912	.1017-01	.8352-02	.8908-02	6.005	40.23	559.6
390	.00000	.20000-01	4.0000	.3166	.2615	.2917	.5741-02	.4743-02	.5290-02	3.487	19.44	542.5
390	.00000	.30000-01	5.0000	.2281	.1856	.2150	.4136-02	.3420-02	.3839-02	2.524	14.09	539.8
390	.00000	.40000-01	6.0000	.1859	.1547	.1788	.3390-02	.2805-02	.3242-02	2.077	11.61	537.3
390	.00000	.50000-01	7.0000	.1677	.1387	.1621	.3042-02	.2515-02	.2939-02	1.853	12.53	540.9
390	.00000	.60000-01	8.0000	.1635	.1352	.1591	.2955-02	.2452-02	.2896-02	1.811	11.56	539.0
390	.00000	.70000-01	9.0000	.1352	.1151	.1355	.2624-02	.2088-02	.2476-02	1.542	10.76	539.2
390	.00000	.80000-01	10.0000	.1141	.9440-01	.1125	.2069-02	.1712-02	.2040-02	1.268	8.862	536.8
390	.00000	.90000-01	11.0000	.1214	.8330-01	.1004	.1839-02	.1522-02	.1821-02	1.129	7.214	536.1
390	.00000	.10000+00	12.0000	.9330-01	.7483-01	.6980-01	.1638-02	.1356-02	.1628-02	1.006	6.084	535.8
390	.00000	.12000	14.0000	.7750-01	.6410-01	.7740-01	.1405-02	.1163-02	.1413-02	.8650	4.843	534.0
390	.00000	.13000	15.0000	.7160-01	.5930-01	.7170-01	.1239-02	.1076-02	.1300-02	.8000	4.712	534.4
390	.00000	.14000	16.0000	.6370-01	.5270-01	.6380-01	.1155-02	.9564-03	.1157-02	.7110	4.548	534.3
390	.00000	.16000	18.0000	.6700-01	.5550-01	.6720-01	.1215-02	.1000-02	.1219-02	.7470	4.647	534.7
390	.00000	.17000	19.0000	.6340-01	.5250-01	.6370-01	.1149-02	.9515-03	.1155-02	.7070	4.519	535.0



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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(970) BTU/R FT2SEC	H(10) BTU/R FT2SEC	H(14H) BTU/R FT2SEC	ODOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
390	.00000	.18000	20.000	.6320-01	.5230-01	.6360-01	.1146-02	.9489-03	.1153-02	.7050	4.508	534.8
390	.00000	.19000	21.000	.6120-01	.5070-01	.6170-01	.1111-02	.9199-03	.1118-02	.6850	4.383	533.3
390	.00000	.20000	22.000	.5980-01	.4950-01	.6030-01	.1084-02	.8973-03	.1093-02	.6660	4.258	535.4
390	.00000	.22500	23.000	.5620-01	.4650-01	.5680-01	.1019-02	.8435-03	.1030-02	.6260	4.002	535.6
390	.00000	.25000	801.00	.5360-01	.4440-01	.5430-01	.9725-03	.8051-03	.9846-03	.5970	3.819	535.6
390	.00000	.30000	802.00	.4740-01	.3920-01	.4800-01	.8558-03	.7117-03	.8705-03	.5280	3.375	535.8
390	.00000	.35000	803.00	.4950-01	.4100-01	.5010-01	.8981-03	.7432-03	.9093-03	.5510	3.518	535.8
390	.00000	.40000	804.00	.4780-01	.3960-01	.4840-01	.8663-03	.7172-03	.8771-03	.5320	3.504	535.4
390	.00000	.45000	805.00	.4410-01	.3550-01	.4460-01	.7995-03	.6618-03	.8094-03	.5330	3.330	535.6
390	.00000	.50000	806.00	.4010-01	.3320-01	.4060-01	.7274-03	.6022-03	.7364-03	.4470	3.126	535.4
390	.00000	.55000	807.00	.3510-01	.3150-01	.3850-01	.6904-03	.5715-03	.6990-03	.4240	3.160	536.1
390	.00000	.60000	808.00	.3430-01	.2840-01	.3470-01	.6223-03	.5151-03	.6300-03	.3820	2.851	535.7
390	.00000	.65000	809.00	.3400-01	.2810-01	.3440-01	.6165-03	.5103-03	.6242-03	.3780	2.821	536.3
390	.00000	.70000	810.00	.2970-01	.2460-01	.3010-01	.5382-03	.4454-03	.5449-03	.3300	2.546	536.6
390	.00000	.75000	811.00	.3240-01	.2680-01	.3280-01	.5867-03	.4855-03	.5940-03	.3600	2.682	536.7
390	.00000	.80000	812.00	.3410-01	.2820-01	.3450-01	.6186-03	.5120-03	.6263-03	.3790	2.829	536.5
390	.00000	.85000	813.00	.2970-01	.2460-01	.3040-01	.5393-03	.4464-03	.5514-03	.3310	2.553	536.1
390	.00000	.90000	814.00	.2710-01	.2240-01	.2780-01	.4913-03	.4068-03	.5033-03	.3020	2.181	535.0
390	.00000	.92500	815.00	.2030-01	.1680-01	.2080-01	.3675-03	.3044-03	.3774-03	.2260	1.875	534.7
390	.00000	.95000	816.00	.1210-01	.1010-01	.1250-01	.2202-03	.1824-03	.2266-03	.1360	1.126	533.6
390	.00000	.97500	817.00	.6800-02	.7300-02	.9100-02	.1598-03	.1324-03	.1648-03	.9800-01	.8170	534.0
390	.00000	1.0150	818.00	.5500-02	.4600-02	.5700-02	.1004-03	.8316-04	.1039-03	.6200-01	.4610	535.0
390	.00000	1.0300	819.00	.1870-01	.1550-01	.1940-01	.3396-03	.2810-03	.3512-03	.2080	1.550	537.4
390	.00000	1.0500	821.00	.3760-01	.3110-01	.3890-01	.6826-03	.5644-03	.7060-03	4.160	3.509	539.9
390	.00000	1.0500	89.000	.1850-01	.1530-01	.1850-01	.3349-03	.2776-03	.3349-03	.2070	1.255	531.5
390	.00000	1.0500	91.000	.3360-01	.2540-01	.3060-01	.5553-03	.4600-03	.5553-03	.3420	2.130	533.4
390	.00000	1.0500	90.000	.1270-01	.1050-01	.1270-01	.2307-03	.1913-03	.2307-03	.1430	.8650	531.1
390	.00000	1.0500	823.00	.5050-01	.4180-01	.5120-01	.9163-03	.7579-03	.9277-03	.5600	4.472	538.3
390	.00000	1.0500	824.00	.4550-01	.3760-01	.4610-01	.8251-03	.6825-03	.8354-03	.5050	4.025	538.5
390	.00000	1.0500	825.00	.3110-01	.2570-01	.3150-01	.5638-03	.4664-03	.5709-03	.3450	3.083	538.2
390	.00000	1.0500	826.00	.3950-01	.3180-01	.3900-01	.6979-03	.5773-03	.7066-03	.4270	3.180	538.2
390	.00000	1.0500	827.00	.3340-01	.2760-01	.3380-01	.6058-03	.5011-03	.6134-03	.3710	2.762	538.0
390	.00000	1.0500	828.00	.2780-01	.2300-01	.2840-01	.5033-03	.4165-03	.5155-03	.3090	2.466	536.6
390	.00000	1.0500	103.00	.1471	.1215	.1471	.2668-02	.2205-02	.2668-02	1.622	9.516	542.3
391	.00000	1.0500	104.00	.8300-01	.6860-01	.8300-01	.1506-02	.1245-02	.1506-02	.9200	5.870	539.1
390	.00000	1.0500	971.00	.1480-01	.1220-01	.1480-01	.2676-03	.2216-03	.2676-03	.1650	1.229	534.7
390	.00000	1.0500	975.00	.2880-01	.2380-01	.2880-01	.5219-03	.4319-03	.5219-03	.3200	2.388	536.2
390	.00000	1.0500	980.00	.3032-01	.2510-01	.3030-01	.5498-03	.4552-03	.5498-03	.3380	2.520	535.4
391	.00000	1.0500	105.00	.2181	.1801	.2181	.3957-02	.3267-02	.3957-02	2.395	13.33	545.0
391	.00000	1.0500	93.000	.3120-01	.2590-01	.3120-01	.5666-03	.4693-03	.5666-03	.3490	2.173	533.5
391	.00000	1.0500	106.00	.1652	.1364	.1652	.2997-02	.2475-02	.2997-02	1.816	11.56	544.2
391	.00000	1.0500	107.00	.9910-01	.8190-01	.9910-01	.1798-02	.1485-02	.1798-02	1.093	9.747	542.2
390	.00000	1.0500	970.00	.7800-02	.6400-02	.7800-02	.1411-03	.1169-03	.1411-03	.8700-01	.6510	532.4

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B40)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H19TO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAN BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
390	30.000	.95000	974.00	.1650-01	.1370-01	.1650-01	.2997-03	.2482-03	.2997-03	.1850	1.377	534.2
390	30.000	.97500	979.00	.2500-02	.2100-02	.2500-02	.4522-04	.3747-04	.4522-04	.2800-01	7.402	532.3
391	31.500	.40000	108.00	.6580-01	.5440-01	.6580-01	.1194-02	.9877-03	.1194-02	.7290	5.452	539.6
390	31.000	.40000	831.00	.7050-01	.5830-01	.7050-01	.1278-02	.1057-02	.1278-02	.6700	4.825	539.1
390	32.000	.50000	832.00	.6050-01	.5000-01	.6050-01	.1096-02	.9068-03	.1110-02	.6130	4.150	539.1
390	32.000	.60000	833.00	.5540-01	.4580-01	.5540-01	.1004-02	.8302-03	.1016-02	.6130	4.150	539.1
390	32.000	.70000	834.00	.6080-01	.5030-01	.6080-01	.1103-02	.9127-03	.1117-02	.6750	5.196	538.7
390	32.000	.80000	835.00	.3750-01	.3100-01	.3750-01	.6802-03	.5627-03	.6887-03	.4160	3.000	538.2
390	32.000	.90000	836.00	.2860-01	.2370-01	.2860-01	.5184-03	.4290-03	.5311-03	.3180	2.370	536.6
390	32.000	.95000	837.00	.3010-01	.2490-01	.3010-01	.5454-03	.4514-03	.5613-03	.3350	2.580	536.5
390	32.000	.97500	838.00	.1720-01	.1420-01	.1720-01	.3114-03	.2579-03	.3212-03	.1920	1.532	534.8
390	32.000	1.0150	839.00	.1330-01	.1100-01	.1330-01	.2415-03	.1999-03	.2410-03	.1480	1.205	536.4
390	32.000	1.0300	840.00	.3500-01	.2890-01	.3500-01	.6343-03	.5245-03	.6330-03	.3870	3.032	539.7
390	32.000	1.0450	841.00	.5940-01	.4910-01	.5940-01	.1078-02	.8907-03	.1076-02	.6560	5.044	541.6
391	35.000	.50000-01	115.00	.1504	.1242	.1504	.2728-02	.2254-02	.2728-02	.1.655	10.54	543.6
391	35.000	.20000	110.00	.7610-01	.6290-01	.7610-01	.1381-02	.1141-02	.1381-02	.8410	8.528	541.2
391	39.000	.10000-00	116.00	.1111	.9180-01	.1111	.2015-02	.1665-02	.2015-02	1.226	7.816	541.5
391	40.000	.76000-01	121.00	.8260-01	.6830-01	.8260-01	.1499-02	.1240-02	.1499-02	.9170	5.854	538.4
391	40.000	.15000	111.00	.1357	.1120	.1357	.2462-02	.2033-02	.2462-02	1.490	11.06	544.9
391	40.000	.20000	112.00	.7420-01	.6130-01	.7420-01	.1347-02	.1113-02	.1347-02	.8180	9.122	542.5
391	42.500	.50000-01	127.00	.1151	.9510-01	.1151	.2098-02	.1726-02	.2098-02	1.272	8.558	541.1
391	45.000	.15000	117.00	.8950-01	.7410-01	.8950-01	.1626-02	.1345-02	.1626-02	.9940	5.844	538.8
390	45.000	.92500	969.00	.3000-03	.2000-03	.3000-03	.5227-05	.4333-05	.5227-05	.3000-02	.2400-01	531.1
390	45.000	.95000	973.00	.3000-03	.2000-03	.3000-03	.5102-05	.4228-05	.5102-05	.3000-02	.2400-01	531.8
391	51.000	.20000	118.00	.5110-01	.4230-01	.5110-01	.9267-03	.7670-03	.9267-03	.5690	3.636	536.2
391	60.000	.50000-01	131.00	.6450-01	.5330-01	.6450-01	.1169-02	.9377-03	.1169-02	.7170	4.858	537.0
391	67.500	.20000	128.00	.2890-01	.2390-01	.2890-01	.5242-03	.4341-03	.5242-03	.3230	2.407	534.7
390	75.000	.97500	977.00	.1100-02	.9000-03	.1100-02	.1907-04	.1581-04	.1907-04	.1200-01	.8800-01	532.1
390	85.000	.97500	976.00	.4200-02	.3400-02	.4200-02	.7548-04	.6253-04	.7548-04	.4700-01	.3480	532.8
391	105.00	.40100	135.00	.1270-01	.1050-01	.1270-01	.2303-03	.1909-03	.2303-03	.1420	1.106	532.0
391	105.00	.50100	136.00	.2250-01	.1850-01	.2250-01	.4079-03	.3378-03	.4079-03	.2510	2.012	533.9
391	105.00	.50100	137.00	.3480-01	.2880-01	.3480-01	.5318-03	.4230-03	.5318-03	.3880	3.105	535.6
391	105.00	.60000	138.00	.2600-01	.2160-01	.2600-01	.4723-03	.3912-03	.4723-03	.2910	2.332	533.5
391	105.00	.60000	139.00	.9700-02	.8000-02	.9700-02	.1757-03	.1456-03	.1757-03	.1090	.8710	531.8
391	113.00	.60100	145.00	.2570-01	.2130-01	.2570-01	.4665-03	.3864-03	.4665-03	.2880	2.303	533.6
391	116.00	.60100	147.00	.2790-01	.2310-01	.2790-01	.5067-03	.4196-03	.5067-03	.3120	2.496	534.5
391	116.00	.75100	148.00	.3480-01	.2880-01	.3480-01	.6320-03	.5233-03	.6320-03	.3890	3.111	534.7
391	120.00	.10000+00	132.00	.2310-01	.1910-01	.2310-01	.4150-03	.3471-03	.4150-03	.2590	1.565	533.2
391	120.00	.80500	247.00	.1096	.9060-01	.1096	.1929-02	.1644-02	.1929-02	1.215	10.01	539.0
391	120.00	.82900	248.00	.8670-01	.7180-01	.8670-01	.1573-02	.1302-02	.1573-02	.9630	7.939	538.0
391	120.00	.86200	249.00	.7120-01	.5890-01	.7120-01	.1091-02	.1069-02	.1091-02	.7930	5.798	535.7
391	130.00	.87500	253.00	.9400-01	.7780-01	.9400-01	.1705-02	.1411-02	.1705-02	1.045	6.352	537.0
391	130.00	.82900	254.00	.6870-01	.5690-01	.6870-01	.1247-02	.1032-02	.1247-02	.7670	5.949	535.0

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9T0) BTU/ R FT/SEC	H(10) BTU/ R FT/SEC	H(TAN) BTU/ R FT/SEC	ODOT BTU/ R FT/SEC	DT/DT DEG. R /SEC	TH DEG. R
391	130.00	.86200	255.00	.3360-01	.2790-01	.3360-01	.6102-03	.5055-03	.6102-03	.3770	3.115	532.6
391	135.00	.4020	142.00	.2300-02	.1900-02	.2300-02	.4256-04	.3528-04	.4256-04	.2600-01	.2050	530.6
391	135.00	.50100	143.00	.2700-02	.2300-02	.2700-02	.4972-04	.4121-04	.4972-04	.3100-01	.2550	531.1
391	135.00	.60100	144.00	.2200-02	.1900-02	.2200-02	.4077-04	.3379-04	.4077-04	.2500-01	.1960	531.0
391	135.00	.70100	145.00	.3400-02	.2800-02	.3400-02	.6187-04	.528-04	.6187-04	.3800-01	.3070	530.8
391	140.00	.18000	85.000	.7700-02	.6400-02	.7700-02	.1392-03	.1153-03	.1392-03	.8600-01	.6620	534.3
391	140.00	.19500	87.000	.1550-01	.1290-01	.1550-01	.2820-03	.2337-03	.2820-03	.1740	1.346	532.4
391	145.00	.80500	259.00	.5070-01	.4200-01	.5070-01	.9205-03	.7627-03	.9205-03	.5680	4.414	532.7
392	145.00	.82900	260.00	.4710-01	.3910-01	.4710-01	.8491-03	.7043-03	.8491-03	.5290	3.995	529.8
392	145.00	.86200	261.00	.7700-02	.6400-02	.7700-02	.1388-03	.1151-03	.1388-03	.8600-01	.7160	530.1
391	150.00	.16000	85.000	.1480-01	.1230-01	.1480-01	.2683-03	.2223-03	.2683-03	.1660	1.239	532.1
391	150.00	.18000	84.000	.2970-01	.2460-01	.2970-01	.3395-03	.4469-03	.3395-03	.3330	2.487	532.9
391	150.00	.19000	82.000	.7000-03	.5000-03	.7000-03	.1199-04	.9943-05	.1199-04	.7000-02	5.600-01	528.9
391	155.00	.16000	80.000	.1450-01	.1210-01	.1450-01	.2639-03	.2187-03	.2639-03	.1630	1.220	531.8
391	155.00	.18000	83.000	.7000-03	.6000-03	.7000-03	.1344-04	.1115-04	.1344-04	.8000-02	6.300-01	528.3
391	160.00	.18000	77.000	.4630-01	.3830-01	.4630-01	.8396-03	.6953-03	.8396-03	.5170	4.135	534.2
391	175.00	.15000	81.000	.1210-01	.1000-01	.1210-01	.2199-03	.1823-03	.2199-03	.1360	.9830	531.9
391	175.00	.16500	79.000	.2910-01	.2410-01	.2910-01	.5287-03	.4379-03	.5287-03	.3260	2.434	533.4
391	175.00	.17500	78.000	.4570-01	.3790-01	.4570-01	.8295-03	.6859-03	.8295-03	.5110	3.687	534.6
390	180.00	.10000-01	59.000	.2835	.2340	.2835	.5142-02	.4244-02	.5142-02	.3.105	23.04	546.0
390	180.00	.25000-01	60.000	.9630-01	.7970-01	.9630-01	.1746-02	.1445-02	.1746-02	1.072	7.734	535.9
390	180.00	.50000-01	61.000	.4770-01	.3950-01	.4770-01	.8651-03	.7169-03	.8651-03	.5340	3.422	523.3
390	180.00	.75000-01	62.000	.2490-01	.2060-01	.2490-01	.4513-03	.3740-03	.4513-03	.2790	1.789	531.3
390	180.00	.10000-00	63.000	.1490-01	.1230-01	.1490-01	.2697-03	.2236-03	.2697-03	.1670	1.101	531.1
390	180.00	.12500	64.000	.1130-01	.9300-02	.1130-01	.2042-03	.1633-03	.2042-03	.1260	.8860	531.0
390	180.00	.15000	65.000	.6800-02	.5600-02	.6800-02	.1226-03	.1016-03	.1226-03	.7600-01	.5320	530.6
390	180.00	.16000	66.000	.1760-01	.1460-01	.1760-01	.3197-03	.2650-03	.3197-03	.1980	1.110	530.9
390	180.00	.17000	67.000	.5710-01	.4730-01	.5710-01	.1036-02	.8572-03	.1036-02	.6360	3.556	536.0
390	180.00	.20000	69.000	.2080-01	.1720-01	.2080-01	.3772-03	.3125-03	.3772-03	.2330	1.449	532.8
390	180.00	.40100	72.000	.3200-02	.3200-02	.3200-02	.6896-04	.5713-04	.6896-04	.4300-01	.3640	532.8
390	180.00	.50000	73.000	.7000-02	.5800-02	.7000-02	.1261-03	.1045-03	.1261-03	.7800-01	.6650	533.0
390	180.00	.60100	74.000	.8500-02	.7100-02	.8500-02	.1545-03	.1280-03	.1545-03	.9500-01	.7870	533.4
390	180.00	.70100	75.000	.7500-02	.6200-02	.7500-02	.1363-03	.1129-03	.1363-03	.8400-01	.6740	532.6

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AEDC VKF V418-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V418-57A) ORBITER FUSELAGE

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = -7.000 SPOBRK = 40.00  
 BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAH DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
399	7.940	1.025	19.98	.0000	180.0	211.2	.2300-01	1267.	93.10	1.003	3754.	.2047-04
400	7.940	1.013	19.99	.0000	180.0	209.3	.2300-01	1270.	93.30	.9940	3758.	.2025-04
401	7.940	1.013	19.99	.0000	180.0	209.9	.2300-01	1272.	93.50	.9970	3761.	.2027-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
399	.7497-07	.2448-01	0.0175
400	.7512-07	.2438-01	.4041-01
401	.7525-07	.2442-01	.4040-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	OODT BTU/ R FT2SEC	OTWOT DEG. R /SEC	TH DEG. R
399	.00000	.00000	1.0000	.8883	.7224	.7393	.2175-01	.1769-01	.1810-01	12.00	65.37	589.7
399	.00000	.50000-02	2.0000	.7357	.5994	.6134	.1804-01	.1468-01	.1502-01	9.978	67.97	587.4
399	.00000	.10000-01	3.0000	.5577	.4562	.4867	.1365-01	.1117-01	.1192-01	7.779	51.82	570.8
399	.00000	.20000-01	4.0000	.2649	.2183	.2438	.6486-02	.5344-02	.5970-02	3.847	21.39	547.5
399	.00000	.30000-01	5.0000	.2250	.1857	.2120	.5510-02	.4546-02	.5190-02	3.292	18.34	543.2
399	.00000	.40000-01	6.0000	.1982	.1636	.1895	.4853-02	.4005-02	.4639-02	2.904	16.19	542.1
399	.00000	.50000-01	7.0000	.1644	.1356	.1588	.4026-02	.3320-02	.3899-02	2.400	15.14	544.5
399	.00000	.60000-01	8.0000	.1627	.1342	.1583	.3984-02	.3286-02	.3877-02	2.378	15.14	543.7
399	.00000	.70000-01	9.0000	.1344	.1109	.1318	.3291-02	.2715-02	.3227-02	1.964	13.67	544.0
399	.00000	.80000-01	10.000	.1065	.8793-01	.1050	.2607-02	.2152-02	.2571-02	1.563	10.90	541.0
399	.00000	.90000-01	11.000	.9820-01	.7940-01	.9520-01	.2354-02	.1945-02	.2331-02	1.416	9.037	539.1
399	.00000	.10000+00	12.000	.9030-01	.7450-01	.8970-01	.2210-02	.1825-02	.2196-02	1.329	8.021	539.2
399	.00000	.12000	14.000	.7770-01	.6420-01	.7760-01	.1902-02	.1572-02	.1900-02	1.148	6.414	537.3
399	.00000	.13000	15.000	.7010-01	.5790-01	.7010-01	.1716-02	.1418-02	.1717-02	1.035	6.085	537.6
399	.00000	.14000	16.000	.6350-01	.5250-01	.6370-01	.1556-02	.1286-02	.1559-02	.9380	5.989	537.8
399	.00000	.16000	18.000	.6510-01	.5380-01	.6540-01	.1594-02	.1317-02	.1601-02	.9600	5.962	538.1
399	.00000	.17000	19.000	.6230-01	.5140-01	.6260-01	.1524-02	.1259-02	.1532-02	.9180	5.857	538.7

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

(RV1840)

AEDC VKI V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C N3	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/R FT2SEC	H(10) BTU/R FT2SEC	H(11) BTU/R FT2SEC	QDOT BTU/FT2SEC	DTWDT DEG/R /SEC	TW DEG. R
399	00.000	18000	20.000	6520-01	5390-01	6560-01	1597-02	1319-02	1607-02	9610	6.134	538.7
399	00.000	19000	21.000	5750-01	4760-01	5800-01	1409-02	1134-02	1419-02	8500	5.431	537.1
399	00.000	20000	22.000	5950-01	4910-01	6000-01	1456-02	1203-02	1469-02	8760	5.593	538.8
399	00.000	21000	23.000	5560-01	4340-01	5330-01	1268-02	1064-02	1302-02	7750	4.950	538.4
399	00.000	22000	24.000	5150-01	4250-01	5210-01	1260-02	1041-02	1276-02	7590	4.842	538.5
399	00.000	23000	25.000	4700-01	3990-01	4760-01	1152-02	9515-03	1166-02	6930	4.426	538.5
399	00.000	24000	26.000	4960-01	4100-01	5030-01	1215-02	1004-02	1231-02	7300	4.660	539.5
399	00.000	25000	27.000	4640-01	3830-01	4700-01	1175-02	9355-03	1151-02	6830	4.489	539.1
399	00.000	26000	28.000	4150-01	3420-01	4200-01	1015-02	8394-03	1028-02	6100	4.130	539.4
399	00.000	27000	29.000	3650-01	3180-01	3900-01	9422-03	7781-03	9542-03	5560	3.949	539.8
399	00.000	28000	30.000	3520-01	2990-01	3670-01	8371-03	7324-03	6983-03	5320	3.959	540.6
399	00.000	29000	31.000	3300-01	2730-01	3350-01	8069-03	6879-03	8191-03	4860	3.613	540.2
399	00.000	30000	32.000	2930-01	2330-01	2970-01	7181-03	5928-03	7272-03	4310	3.204	540.7
399	00.000	31000	33.000	2640-01	2350-01	2620-01	6955-03	5742-03	7043-03	4170	3.209	540.9
399	00.000	32000	34.000	2630-01	2340-01	2670-01	6927-03	5718-03	7015-03	4150	3.090	540.9
399	00.000	33000	35.000	2750-01	2250-01	2730-01	6635-03	5519-03	6770-03	4010	2.983	540.6
399	00.000	34000	36.000	2750-01	2270-01	2820-01	6733-03	5564-03	6823-03	4040	3.113	540.4
399	00.000	35000	37.000	2550-01	2120-01	2630-01	6277-03	5185-03	6432-03	3780	2.721	538.9
399	00.000	36000	38.000	1870-01	1540-01	1920-01	4567-03	3774-03	4691-03	2750	2.278	537.9
399	00.000	37000	39.000	9400-02	7700-02	9700-02	2295-03	1837-03	2363-03	1390	1.249	536.7
399	00.000	38000	40.000	1020-01	8400-02	1050-01	2552-03	2067-03	2581-03	1510	1.249	537.4
399	00.000	39000	41.000	7500-02	6300-02	7900-02	1859-03	1535-03	1924-03	1110	0.8290	540.9
399	00.000	40000	42.000	3510-01	2900-01	3530-01	8593-03	7033-03	8891-03	5130	3.814	543.1
399	00.000	41000	43.000	1890-01	1560-01	1880-01	4615-03	3818-03	4615-03	2800	1.697	547.0
399	00.000	42000	44.000	3320-01	2730-01	3300-01	8055-03	6684-03	8055-03	4890	3.038	535.9
399	00.000	43000	45.000	4300-02	3500-02	4300-02	1045-03	8648-04	1045-03	6300-01	3.840	533.6
399	00.000	44000	46.000	5060-01	4180-01	5130-01	1240-02	1023-02	1256-02	7420	5.909	542.7
399	00.000	45000	47.000	4610-01	3800-01	4670-01	1129-02	9316-03	1143-02	6750	5.375	542.7
399	00.000	46000	48.000	3010-01	2480-01	3050-01	7366-03	6079-03	7460-03	4410	3.933	542.0
399	00.000	47000	49.000	3300-01	2750-01	3390-01	8058-03	6733-03	8265-03	4890	3.625	542.8
399	00.000	48000	50.000	3300-01	2720-01	3340-01	8058-03	6659-03	8170-03	4830	3.594	541.5
399	00.000	49000	51.000	2550-01	2110-01	2620-01	6248-03	5160-03	6403-03	3750	2.993	539.8
400	00.000	50000	52.000	1447	1192	1447	3527-02	2907-02	3527-02	2099	12.29	547.5
400	00.000	51000	53.000	8210-01	6770-01	8210-01	2001-02	1651-02	2001-02	1195	7.632	543.5
399	00.000	52000	54.000	1700-01	1400-01	1700-01	4154-03	3433-03	4154-03	2510	1.869	536.7
399	00.000	53000	55.000	3100-01	2560-01	3100-01	7584-03	6264-03	7584-03	4560	3.394	539.4
399	00.000	54000	56.000	2940-01	2430-01	2940-01	7199-03	5948-03	7199-03	4340	3.229	538.3
400	00.000	55000	57.000	2159	1778	2159	5654-02	4335-02	5264-02	3122	17.34	549.6
399	00.000	56000	58.000	3490-01	2890-01	3490-01	8538-03	7058-03	8538-03	5160	3.206	536.2
400	00.000	57000	59.000	1641	1352	1641	4001-02	3296-02	4001-02	2372	15.05	549.9
400	00.000	58000	60.000	9630-01	8100-01	9630-01	2397-02	1976-02	2397-02	1426	12.69	547.7
399	00.000	59000	61.000	9700-02	8000-02	9700-02	2376-03	1966-03	2376-03	1440	1.076	533.9

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AEDC VKF 741B-57A (04-498) COLLATION DECK

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04-498 (AEDC 741B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19T0 BTU/ R FT2SEC	H1T0 BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
399	30.000	.95000	974.00	.1860-01	.1540-01	.1860-01	.4556-03	.3767-02	.4556-03	.2750	2.054	535.9
399	30.000	.97500	979.00	.2110-01	.1750-01	.2110-01	.5171-03	.4276-03	.5171-03	.2750	2.054	535.9
400	31.500	.20000	108.00	.6420-01	.5300-01	.6420-01	.1566-02	.1292-02	.1566-02	.9380	9.495	544.0
399	32.000	.40000	831.00	.7050-01	.5920-01	.7050-01	.1727-02	.1425-02	.1727-02	.1033	7.195	542.6
399	32.000	.50000	832.00	.5930-01	.4800-01	.5930-01	.1452-02	.1197-02	.1452-02	.8660	6.228	543.7
399	32.000	.60000	833.00	.5419-01	.4460-01	.5419-01	.1324-02	.1092-02	.1324-02	.7900	5.338	543.4
399	32.000	.70000	834.00	.4540-01	.3750-01	.4540-01	.1111-02	.9170-03	.1111-02	.6650	5.118	541.7
399	32.000	.80000	835.00	.3570-01	.2950-01	.3570-01	.8751-03	.7223-03	.8751-03	.5240	3.772	541.5
399	32.000	.90000	836.00	.2770-01	.2280-01	.2770-01	.6771-03	.5591-03	.6771-03	.4070	3.027	539.8
399	32.000	.95000	837.00	.2550-01	.2350-01	.2550-01	.6957-03	.5753-03	.6957-03	.4150	3.224	539.6
399	32.000	.97500	838.00	.1120-01	.9200-02	.1120-01	.2737-03	.2263-03	.2737-03	.1660	1.324	535.3
399	32.000	1.0150	839.00	.5920-02	.8100-02	.5920-02	.2408-03	.1938-03	.2408-03	.1440	1.170	541.7
399	32.000	1.0320	840.00	.4030-01	.3320-01	.4030-01	.9058-03	.8136-03	.9058-03	.5970	4.587	545.5
399	32.000	1.0450	841.00	.6280-01	.5170-01	.6280-01	.1537-02	.1265-02	.1537-02	.9110	6.989	547.6
400	35.000	.50000-01	115.00	.1495	.1232	.1495	.3545-02	.3003-02	.3545-02	2.164	13.74	549.1
400	35.000	.20000	116.00	.7290-01	.6310-01	.7290-01	.1777-02	.1455-02	.1777-02	1.059	10.71	546.6
400	39.000	.10000+00	116.00	.1166	.9620-01	.1166	.2843-02	.2345-02	.2843-02	1.698	10.80	545.4
400	40.000	.75000-01	121.00	.8190-01	.6760-01	.8190-01	.1956-02	.1647-02	.1956-02	1.197	7.622	543.1
400	40.000	.15000	111.00	.1166	.1166	.1166	.3454-02	.2843-02	.3454-02	2.041	15.10	551.8
400	40.000	.20000	112.00	.7510-01	.6190-01	.7510-01	.1831-02	.1509-02	.1831-02	1.089	12.10	548.4
400	42.500	.50000-01	127.00	.1127	.9280-01	.1127	.2747-02	.2235-02	.2747-02	1.639	11.05	546.1
400	45.000	.15000	117.00	.6870-01	.7320-01	.6870-01	.2163-02	.1785-02	.2163-02	1.297	7.607	543.2
395	45.000	.92500	969.00	.1100-02	.9000-03	.1100-02	.2802-04	.2319-04	.2802-04	.1760-01	.1270	532.0
399	45.000	.95000	973.00	.6000-03	.5000-03	.6000-03	.1358-04	.1124-04	.1358-04	.8000-02	.6200-01	532.4
399	45.000	.97500	978.00	.2000-02	.1700-02	.2000-02	.4924-04	.4075-04	.4924-04	.3000-01	.2240	532.5
400	51.000	.20000	118.00	.4950-01	.4090-01	.4950-01	.1206-02	.9966-03	.1206-02	.7280	4.646	539.2
400	60.000	.50000-01	131.00	.6320-01	.5220-01	.6320-01	.1541-02	.1272-02	.1541-02	.9260	6.262	541.5
399	67.500	.20000	128.00	.2550-01	.2440-01	.2550-01	.7203-03	.5952-03	.7203-03	.4350	3.243	538.2
399	75.000	.97500	977.00	.2400-02	.2000-02	.2400-02	.5782-04	.4785-04	.5782-04	.2620	.2620	532.9
399	85.000	.97500	976.00	.4600-02	.3900-02	.4600-02	.1136-03	.9399-04	.1136-03	.3500-01	.5150	537.5
400	105.00	.40100	136.00	.1060-01	.8700-02	.1060-01	.2573-03	.2128-03	.2573-03	.1560	1.212	535.2
400	105.00	.50100	137.00	.2070-01	.1710-01	.2070-01	.5037-03	.4164-03	.5037-03	.3050	2.438	537.0
400	105.00	.60100	139.00	.3420-01	.2620-01	.3420-01	.8332-03	.6895-03	.8332-03	.5030	4.017	538.7
400	105.00	.70100	139.00	.3220-01	.2500-01	.3220-01	.9316-03	.7699-03	.9316-03	.5630	4.495	539.3
400	113.00	.80100	143.00	.1150-01	.9500-02	.1150-01	.2811-03	.2326-03	.2811-03	.1710	1.369	534.3
400	113.00	.90100	145.00	.2550-01	.1970-01	.2550-01	.5805-03	.4800-03	.5805-03	.3520	2.812	536.6
400	116.00	.60100	147.00	.2500-01	.2370-01	.2500-01	.6102-03	.5043-03	.6102-03	.3630	2.947	537.9
400	116.00	.75100	148.00	.4400-01	.3640-01	.4400-01	.1073-02	.8855-03	.1073-02	.6470	5.157	540.1
400	120.00	.10000+00	132.00	.2360-01	.1870-01	.2360-01	.5536-03	.4552-03	.5536-03	.3340	2.018	536.4
400	120.00	.85000	247.00	.1388	.1144	.1388	.3385-02	.2790-02	.3385-02	2.016	16.52	547.2
400	120.00	.82000	248.00	.9310-01	.7690-01	.9310-01	.2271-02	.1874-02	.2271-02	1.361	11.18	543.2
400	120.00	.66000	249.00	.7090-01	.5860-01	.7090-01	.1729-02	.1428-02	.1729-02	1.042	7.598	539.9
400	130.00	.80500	253.00	.1056	.8720-01	.1056	.2576-02	.2125-02	.2576-02	1.542	12.26	544.2

AEDC VKF V41B-57A (OH-498) COLLATION DECK  
OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

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ROW NUMBER	THETA	X/L	T/C NO	H/HREF F=0.9	H/HREF R=1.0	H/HREF (TAN)	H(910) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
400	130.00	.82900	254.00	.6320-01	.5220-01	.6520-01	.1541-02	.1272-02	.1541-02	.9320	7.193	539.4
400	130.00	.86200	255.00	.2940-01	.2440-01	.2940-01	.7180-07	.5938-03	.7180-03	.4360	3.598	535.6
400	135.00	.40100	142.00	.1400-02	.1100-02	.1400-02	.3306-04	.2736-04	.3306-04	.2000-01	.1550	533.3
400	135.00	.50100	143.00	.1700-02	.1400-02	.1700-02	.4243-04	.3511-04	.4243-04	.2600-01	.2140	533.8
400	135.00	.60100	144.00	.2000-03	.2000-03	.2000-03	.4699-05	.3587-05	.4699-05	.2000-02	.2200-01	533.9
400	135.00	.70100	145.00	.3300-02	.2700-02	.3300-02	.7952-04	.6560-04	.7952-04	.4600-01	.3880	533.6
400	140.00	.85000	65.000	.1000-01	.8400-02	.1000-01	.2478-03	.2050-03	.2478-03	.1510	1.164	534.2
400	140.00	.19500	67.000	.1600-01	.1300-01	.1600-01	.2809-03	.2522-03	.2809-03	.1830	1.830	535.6
400	145.00	.60500	259.00	.5300-01	.4300-01	.5300-01	.1235-02	.1070-02	.1235-02	.7830	6.060	538.1
401	145.00	.82500	260.00	.6900-02	.5700-02	.6900-02	.1692-03	.1401-03	.1692-03	.1030	.7790	534.0
401	145.00	.85200	261.00	.6500-02	.5400-02	.6500-02	.1606-03	.1330-03	.1606-03	.9800-01	.8140	532.3
400	150.00	.16000	66.000	.1570-01	.1300-01	.1570-01	.3826-03	.3164-03	.3826-03	.2320	1.731	535.8
400	150.00	.18000	67.000	.3300-01	.2740-01	.3300-01	.9074-03	.6574-03	.9074-03	.4930	3.641	537.4
400	150.00	.19000	82.000	.5000-03	.4000-03	.5000-03	.1253-04	.1039-04	.1253-04	.8000-02	5.700-01	531.8
400	155.00	.16000	80.000	.1500-01	.1310-01	.1500-01	.3859-03	.3200-03	.3859-03	.2330	1.751	535.8
400	160.00	.18000	77.000	.4640-01	.3930-01	.4640-01	.1131-02	.9342-03	.1131-02	.6820	5.436	539.9
400	175.00	.15000	81.000	.1260-01	.1040-01	.1260-01	.3074-03	.2543-03	.3074-03	.1870	1.347	535.4
400	175.00	.16500	79.000	.3150-01	.2610-01	.3150-01	.7665-03	.6353-03	.7665-03	.4650	3.453	537.9
400	175.00	.17500	78.000	.5270-01	.4360-01	.5270-01	.1255-02	.1062-02	.1255-02	.7760	5.586	539.6
399	180.00	.25000-01	59.000	.2319	.2319	.2619	.6501-02	.5578-02	.6501-02	.4.062	30.04	552.0
399	180.00	.25000-01	60.000	.9200-01	.7610-01	.9200-01	.2253-02	.1822-02	.2253-02	1.359	9.797	537.6
399	180.00	.53000-01	61.000	.4570-01	.3720-01	.4570-01	.1119-02	.9260-03	.1119-02	.6790	4.347	533.6
399	180.00	.75000-01	62.000	.2300-01	.1970-01	.2300-01	.5833-03	.4826-03	.5833-03	.3550	2.270	532.7
399	180.00	.10000-01	63.000	.1540-01	.1280-01	.1540-01	.3781-03	.3128-03	.3781-03	.2300	1.514	532.8
399	180.00	.12500	64.000	.1010-01	.8300-02	.1010-01	.2465-03	.2033-03	.2465-03	.1500	1.049	532.7
399	180.00	.15000	65.000	.5600-02	.4800-02	.5600-02	.1411-03	.1167-03	.1411-03	.6600-01	.6000	533.0
399	180.00	.16000	66.000	.1810-01	.1500-01	.1810-01	.4441-03	.3672-03	.4441-03	.2690	1.505	534.8
399	180.00	.17000	67.000	.6670-01	.5510-01	.6670-01	.1634-02	.1345-02	.1634-02	5.484	5.484	539.3
399	180.00	.20000	69.000	.1920-01	.1590-01	.1920-01	.4709-03	.3344-03	.4709-03	.2650	1.771	535.4
399	180.00	.40100	72.000	.7000-02	.5900-02	.7000-02	.1703-03	.1408-03	.1703-03	.1030	.8800	535.2
399	180.00	.50000	73.000	.3200-02	.2600-02	.3200-02	.2260-03	.1869-03	.2260-03	.1370	1.167	535.5
399	180.00	.60100	74.000	.5700-02	.4600-02	.5700-02	.2376-03	.1955-03	.2376-03	.1440	1.187	535.4
399	180.00	.70100	75.000	.7500-02	.6200-02	.7500-02	.1833-03	.1516-03	.1833-03	.1110	.8880	534.9

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FUSELAGE

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1840)

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = -7.000 SPOBRK = 40.00  
 BOFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
408	7.980	1.976	19.97	.0000	180.0	429.0	.4500-01	1300.	94.70	1.991	3904.	.3959-04
409	7.980	1.971	19.97	.0000	180.0	429.4	.4500-01	1303.	94.90	1.993	3809.	.3953-04
410	7.980	1.990	19.97	.0000	180.0	430.4	.4500-01	1297.	94.40	1.997	3799.	.3982-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R	ST FR R =
408	.7621-07	.3465-01	.0175	0.0175
409	.7640-07	.3468-01	.2897-01	.2897-01
410	.7601-07	.3469-01	.2900-01	.2883-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(1GTO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
408	.00000	.00000	1.0000	.9135	.7390	.7567	.3166-01	.2561-01	.2622-01	17.43	93.52	619.5
408	.00000	.50000-02	2.0000	.7449	.6030	.6174	.2581-01	.2089-01	.2139-01	14.26	95.72	617.7
408	.00000	.10000-01	3.0000	.5593	.4563	.4872	.1938-01	.1581-01	.1688-01	11.16	73.51	594.1
408	.00000	.20000-01	4.0000	.3216	.2650	.2960	.1114-01	.9183-02	.1026-01	5.782	37.44	561.6
408	.00000	.30000-01	5.0000	.2269	.1874	.2138	.7853-02	.6493-02	.7410-02	4.846	26.86	553.9
408	.00000	.40000-01	6.0000	.1890	.1552	.1807	.6549-02	.5414-02	.6262-02	4.064	22.57	549.5
408	.00000	.50000-01	7.0000	.1648	.1360	.1592	.5711-02	.4714-02	.5517-02	3.510	23.56	555.6
408	.00000	.60000-01	8.0000	.1610	.1330	.1567	.5578-02	.4608-02	.5429-02	3.447	21.85	552.2
408	.00000	.70000-01	9.0000	.1334	.1102	.1308	.4623-02	.3818-02	.4533-02	2.853	19.77	553.1
408	.00000	.80000-01	10.0000	.1089	.9000-01	.1074	.3772-02	.3118-02	.3720-02	2.336	16.20	551.0
408	.00000	.90000-01	11.0000	.9640-01	.7970-01	.9540-01	.3339-02	.2762-02	.3306-02	2.079	13.21	547.7
408	.00000	.10000+00	12.0000	.8230-01	.7300-01	.8770-01	.3058-02	.2531-02	.3040-02	1.906	11.46	546.9
408	.00000	.12000	14.0000	.7640-01	.6320-01	.7530-01	.2646-02	.2191-02	.2643-02	1.657	9.230	543.9
408	.00000	.13000	15.0000	.7310-01	.5810-01	.7020-01	.2430-02	.2012-02	.2432-02	1.521	8.916	544.3
408	.00000	.14000	16.0000	.6360-01	.5260-01	.6370-01	.2202-02	.1823-02	.2206-02	1.377	8.764	544.7
408	.00000	.16000	18.0000	.6340-01	.5250-01	.6360-01	.2196-02	.1818-02	.2204-02	1.372	8.486	545.3
408	.00000	.17000	19.0000	.6220-01	.5150-01	.6260-01	.2157-02	.1785-02	.2168-02	1.347	8.563	545.8

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1B40)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NJ	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(TAW) BTU/ R F12SEC	QDOT BTU/ F12SEC	QDOT DEG. R /SEC	TW DEG. R
408	.00000	.18000	20.000	.6320-01	.5230-01	.6360-01	.2190-02	.1812-02	.2203-02	1.368	8.688	546.3
408	.00000	.19000	21.000	.6150-01	.5100-01	.6200-01	.2133-02	.1766-02	.2148-02	1.336	8.506	543.7
408	.00000	.20000	22.000	.5940-01	.4830-01	.5890-01	.2024-02	.1575-02	.2041-02	1.263	8.032	546.0
408	.00000	.22500	23.000	.5230-01	.4330-01	.5290-01	.1812-02	.1499-02	.1832-02	1.130	7.187	546.3
408	.00000	.25000	801.00	.5070-01	.4200-01	.5140-01	.1757-02	.1454-02	.1779-02	1.096	6.970	546.7
408	.00000	.30000	802.00	.4550-01	.3760-01	.4600-01	.1575-02	.1303-02	.1595-02	.9820	6.243	548.7
408	.00000	.35000	803.00	.5000-01	.4130-01	.5060-01	.1732-02	.1433-02	.1754-02	1.077	6.836	548.3
408	.00000	.40000	804.00	.4440-01	.3570-01	.4500-01	.1539-02	.1273-02	.1558-02	.9570	6.257	549.1
408	.00000	.45000	805.00	.3910-01	.3230-01	.3960-01	.1354-02	.1120-02	.1371-02	.8410	5.662	549.5
408	.00000	.50000	806.00	.3680-01	.3040-01	.3720-01	.1274-02	.1054-02	.1290-02	.7910	5.491	551.1
408	.00000	.55000	807.00	.3450-01	.2870-01	.3520-01	.1204-02	.9552-03	.1219-02	.7450	5.516	550.7
408	.00000	.60000	808.00	.3120-01	.2560-01	.3160-01	.1081-02	.8336-03	.1095-02	.6700	4.957	551.8
408	.00000	.65000	809.00	.2790-01	.2300-01	.2820-01	.9653-03	.7976-03	.9775-03	.5340	4.416	551.8
408	.00000	.70000	810.00	.2490-01	.2060-01	.2520-01	.8635-03	.7135-03	.8745-03	.5340	4.086	551.8
408	.00000	.75000	811.00	.2660-01	.2200-01	.2690-01	.9211-03	.7611-03	.9328-03	.5700	4.215	551.6
408	.00000	.80000	812.00	.2960-01	.2450-01	.3000-01	.1026-02	.8476-03	.1039-02	.6350	4.698	551.2
408	.00000	.85000	813.00	.2810-01	.2330-01	.2880-01	.9747-03	.8058-03	.9959-03	.6040	4.628	550.2
408	.00000	.90000	814.00	.2530-01	.2090-01	.2590-01	.8774-03	.7258-03	.8930-03	.5460	3.915	548.0
408	.00000	.92500	815.00	.1960-01	.1630-01	.2020-01	.6807-03	.5633-03	.6950-03	.4250	3.499	546.4
408	.00000	.95000	816.00	.1010-01	.8400-02	.1040-01	.3507-03	.2904-03	.3610-03	.290	1.808	545.4
408	.00000	.97500	817.00	.8900-02	.7400-02	.9200-02	.3100-03	.2565-03	.3197-03	.1940	1.556	545.7
408	.00000	1.0150	818.00	.1570-01	.1300-01	.1630-01	.5446-03	.4495-03	.5634-03	.3350	2.474	555.0
408	.00000	1.0350	819.00	.7710-01	.6350-01	.7980-01	.2671-02	.2202-02	.2764-02	1.630	12.01	559.8
408	.00000	1.0600	821.00	.1470	.1207	.1522	.5094-02	.4183-02	.5276-02	3.043	25.22	572.8
408	.00000	.89.000	89.000	.1710-01	.1420-01	.1710-01	.5938-03	.4926-03	.5938-03	.3760	2.270	537.4
408	.00000	91.000	91.000	.3510-01	.2990-01	.3610-01	.1250-02	.1026-02	.1250-02	.7880	4.883	540.3
408	.00000	.50000-01	90.000	.9500-02	.7800-02	.9500-02	.3278-03	.2720-03	.3278-03	.2080	1.255	536.7
408	.00000	823.00	823.00	.5130-01	.4240-01	.5200-01	.1779-02	.1470-02	.1802-02	1.100	8.719	551.9
408	.00000	824.00	824.00	.4500-01	.3720-01	.4560-01	.1561-02	.1269-02	.1591-02	.9610	7.610	554.3
408	.00000	925.00	925.00	.3000-01	.2480-01	.3040-01	.1039-02	.8578-03	.1052-02	.6400	5.679	553.7
408	.00000	826.00	826.00	.3630-01	.3000-01	.3680-01	.1260-02	.1040-02	.1276-02	.7770	5.740	553.6
408	.00000	827.00	827.00	.3340-01	.2760-01	.3380-01	.1157-02	.9555-03	.1171-02	.7150	5.286	552.2
408	.00000	.90000	828.00	.2580-01	.2140-01	.2650-01	.8956-03	.7407-03	.9176-03	.5570	4.420	548.5
409	.00000	103.00	103.00	.1463	.1213	.1468	.5092-02	.4208-02	.5092-02	3.160	18.44	552.6
409	.00000	104.00	104.00	.8220-01	.6800-01	.8220-01	.2852-02	.2359-02	.2852-02	1.781	11.31	548.4
408	.00000	971.00	971.00	.1750-01	.1450-01	.1750-01	.6067-03	.5022-03	.6067-03	.3790	2.813	545.5
408	.00000	975.00	975.00	.3340-01	.2760-01	.3340-01	.1157-02	.9576-03	.1157-02	.7210	5.345	547.3
408	.00000	980.00	980.00	.3740-01	.3090-01	.3740-01	.1295-02	.1072-02	.1295-02	.8080	5.989	546.7
409	.00000	105.00	105.00	.2179	.1799	.2179	.7557-02	.6238-02	.7557-02	4.659	25.79	556.6
408	.00000	.93.000	93.000	.4080-01	.3380-01	.4080-01	.1413-02	.1171-02	.1413-02	.8880	5.504	541.5
409	.00000	106.00	106.00	.1651	.1363	.1651	.5725-02	.4726-02	.5725-02	3.532	22.35	556.0
409	.00000	107.00	107.00	.9880-01	.8160-01	.9880-01	.3426-02	.2830-02	.3426-02	2.120	18.80	554.2
408	.00000	.92500	970.00	.1080-01	.8900-02	.1080-01	.3738-03	.3097-03	.3738-03	.2350	1.748	541.2

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITTER FUSELAGE

(RV1840)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	000T BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
408	30.000	.95000	974.00	.1960-01	.1620-01	.1960-01	.6796-03	.5630-03	.6796-03	.4270	3.173	542.1
408	30.000	.97500	979.00	.1370-01	.1140-01	.1370-01	.4751-03	.3937-03	.4751-03	.2990	2.222	541.3
409	31.500	.20000	108.00	.6430-01	.5310-01	.6430-01	.2230-02	.1843-02	.2230-02	1.385	13.97	552.0
408	32.000	.40000	831.00	.7200-01	.5940-01	.7200-01	.2493-02	.2060-02	.2525-02	1.541	10.68	552.3
408	32.000	.50000	832.00	.5780-01	.4770-01	.5850-01	.2002-02	.1653-02	.2028-02	1.232	8.809	554.7
408	32.000	.60000	833.00	.5160-01	.4260-01	.5230-01	.1789-02	.1476-02	.1812-02	1.099	7.373	556.0
408	32.000	.70000	834.00	.4870-01	.4020-01	.4940-01	.1689-02	.1394-02	.1710-02	1.038	7.929	555.5
408	32.000	.80000	835.00	.3610-01	.2980-01	.3660-01	.1251-02	.1034-02	.1267-02	.7730	5.536	552.1
408	32.000	.90000	836.00	.2650-01	.2200-01	.2730-01	.9233-03	.7636-03	.9461-03	.5740	4.253	548.5
408	32.000	.95000	837.00	.2990-01	.2470-01	.3070-01	.1035-02	.8562-03	.1056-02	.6440	4.937	548.1
408	32.000	.97500	838.00	.1220-01	.1010-01	.1260-01	.4238-03	.3509-03	.4371-03	.2650	2.110	544.3
408	32.000	1.0150	839.00	.1620-01	.1340-01	.1620-01	.5622-03	.4638-03	.5611-03	.3450	2.773	557.3
408	32.000	1.0300	840.00	.7630-01	.6280-01	.7610-01	.2643-02	.2176-02	.2638-02	1.603	12.41	563.5
408	32.000	1.0450	841.00	.1095	.9010-01	.1093	.3794-02	.3121-02	.3786-02	2.289	17.38	567.0
409	35.000	.50000-01	115.00	.1456	.1203	.1456	.5050-02	.4172-02	.5050-02	3.128	19.81	553.7
409	35.000	.20000	110.00	.7240-01	.5980-01	.7240-01	.2512-02	.2074-02	.2512-02	1.551	15.62	555.7
409	39.000	.10000+00	116.00	.1098	.9080-01	.1098	.3809-02	.3150-02	.3809-02	2.370	15.03	550.9
409	40.000	.76000-01	121.00	.8040-01	.6650-01	.8040-01	.2789-02	.2309-02	.2789-02	1.747	11.11	546.8
409	40.000	.15000	111.00	.1400	.1154	.1400	.4855-02	.4004-02	.4855-02	2.977	21.94	559.8
409	40.000	.20000	112.00	.7600-01	.6270-01	.7600-01	.2635-02	.2175-02	.2635-02	1.625	17.99	556.3
409	42.500	.50000-01	127.00	.1148	.9490-01	.1148	.3980-02	.3292-02	.3980-02	2.480	16.69	550.0
409	45.000	.15000	117.00	.6670-01	.7170-01	.8670-01	.3006-02	.2487-02	.3006-02	1.879	10.99	548.0
408	45.000	.92500	969.00	.1000-02	.9000-03	.1000-02	.3629-04	.3012-04	.3629-04	.2300-01	.1720	535.7
408	45.000	.97500	978.00	.1200-02	.1000-02	.1200-02	.4088-04	.3392-04	.4088-04	.2600-01	.1930	535.7
409	51.000	.20000	118.00	.4650-01	.3860-01	.4650-01	.1614-02	.1337-02	.1614-02	1.016	6.467	543.7
409	60.000	.50000-01	131.00	.6230-01	.5160-01	.6230-01	.2160-02	.1783-02	.2160-02	1.359	9.172	544.0
409	67.500	.20000	128.00	.2920-01	.2420-01	.2920-01	.1012-02	.8394-03	.1012-02	.6380	4.744	542.1
408	75.000	.97500	977.00	.2400-02	.2000-02	.2400-02	.8182-04	.6790-04	.8182-04	.5200-01	.3870	536.3
408	85.000	.97500	976.00	.5300-02	.4400-02	.5300-02	.1847-03	.1532-03	.1847-03	.1170	8710	537.2
409	105.00	.40100	135.00	.1060-01	.8800-02	.1060-01	.3573-03	.3046-03	.3573-03	.2330	1.799	539.7
409	105.00	.50100	136.00	.1890-01	.1570-01	.1890-01	.6557-03	.5434-03	.6557-03	.4140	3.295	542.2
409	105.00	.60100	137.00	.3040-01	.2520-01	.3040-01	.1053-02	.8725-03	.1053-02	.6630	5.272	543.9
409	105.00	.70100	138.00	.5480-01	.4540-01	.5480-01	.1901-02	.1573-02	.1901-02	1.189	9.443	547.3
409	105.00	.80000	139.00	.1570-01	.1300-01	.1570-01	.5446-03	.4518-03	.5446-03	.3450	2.757	538.8
409	113.00	.60100	146.00	.2050-01	.1710-01	.2050-01	.7159-03	.5934-03	.7159-03	.4520	3.600	541.8
409	116.00	.70100	147.00	.2420-01	.2010-01	.2420-01	.8400-03	.6961-03	.8400-03	.5300	4.219	542.5
409	116.00	.80100	148.00	.4040-01	.3340-01	.4040-01	.1400-02	.1159-02	.1400-02	.8800	7.001	544.2
409	120.00	.10000+00	132.00	.2150-01	.1780-01	.2150-01	.7445-03	.6175-03	.7445-03	.4720	2.848	539.3
409	120.00	.80500	247.00	.1339	.1105	.1339	.4643-02	.3833-02	.4643-02	2.865	23.36	556.1
409	120.00	.82900	248.00	.7750-01	.6410-01	.7750-01	.2687-02	.2223-02	.2687-02	1.679	13.76	548.0
409	120.00	.86200	249.00	.5000-01	.4150-01	.5000-01	.1734-02	.1438-02	.1734-02	1.096	7.985	541.2
409	130.00	.80500	253.00	.1068	.8830-01	.1068	.3705-02	.3063-02	.3705-02	2.302	18.23	551.8
409	130.00	.82900	254.00	.6000-01	.4970-01	.6000-01	.5082-02	.1725-02	.5082-02	1.310	10.11	543.9

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19T01 BTU/ R FT2SEC	H1T01 BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTHOT DEG. R /SEC	TH DEG. R
409	130.00	.86200	255.00	.2700-01	.2240-01	.2700-01	.3359-03	.7765-03	.9359-03	.5940	4.896	538.3
409	135.00	.40100	142.00	.1200-02	.1000-02	.1200-02	.4223-04	.3505-04	.4223-04	.2700-01	.2090	536.1
409	135.00	.50100	143.00	.1800-02	.1500-02	.1800-02	.6248-04	.5186-04	.6248-04	.4000-01	.3280	536.7
409	135.00	.50100	144.00	.4300-02	.3600-02	.4300-02	.1495-03	.1240-03	.1495-03	.9500-01	.7350	537.8
409	135.00	.70100	145.00	.5000-02	.4200-02	.5000-02	.1747-03	.1500-03	.1747-03	.1110	.8880	537.3
409	140.00	.18000	85.000	.1260-01	.1050-01	.1260-01	.4382-03	.3637-03	.4382-03	.2790	2.150	535.8
409	140.00	.19500	87.000	.2250-01	.1870-01	.2250-01	.7811-03	.6477-03	.7811-03	.4950	3.807	539.9
409	145.00	.80500	259.00	.5900-01	.4800-01	.5900-01	.2010-02	.1666-02	.2010-02	1.267	9.779	542.9
410	145.00	.82900	260.00	.3560-01	.2950-01	.3560-01	.1235-02	.1024-02	.1235-02	.7780	5.846	537.6
410	145.00	.86200	261.00	.5500-02	.4600-02	.5500-02	.1917-03	.1591-03	.1917-03	.1210	1.002	534.5
409	150.00	.16000	85.000	.2030-01	.1690-01	.2030-01	.7056-03	.5851-03	.7056-03	.4470	3.323	540.2
409	150.00	.18000	84.000	.4080-01	.3380-01	.4080-01	.1416-02	.1173-02	.1416-02	.8920	6.625	543.3
409	150.00	.19000	82.000	.8000-03	.6000-03	.8000-03	.2709-04	.2250-04	.2709-04	.1700-01	1.290	533.5
409	155.00	.16000	80.000	.1910-01	.1580-01	.1910-01	.6626-03	.5495-03	.6626-03	.4200	3.122	539.8
409	160.00	.18000	77.000	.6440-01	.5320-01	.6440-01	.2232-02	.1847-02	.2232-02	1.393	11.06	549.0
409	175.00	.15000	81.000	.1580-01	.1310-01	.1580-01	.5465-03	.4532-03	.5465-03	.3460	2.494	539.6
409	175.00	.16500	79.000	.4290-01	.3560-01	.4290-01	.1469-02	.1234-02	.1469-02	.9360	6.951	544.5
409	175.00	.17500	78.000	.6410-01	.5300-01	.6410-01	.3223-02	.1840-02	.3223-02	1.392	9.986	547.0
408	180.00	.10000-01	59.000	.2795	.2300	.2795	.9685-02	.7970-02	.9685-02	5.851	42.97	566.0
408	180.00	.25000-01	60.000	.9020-01	.7470-01	.9020-01	.3127-02	.2589-02	.3127-02	1.955	14.04	545.0
408	180.00	.50000-01	61.000	.4300-01	.3560-01	.4300-01	.1489-02	.1235-02	.1489-02	.9400	5.955	539.2
408	180.00	.75000-01	62.000	.2180-01	.1810-01	.2180-01	.7546-03	.6259-03	.7546-03	.4770	3.048	537.6
408	180.00	.12500	63.000	.1480-01	.1230-01	.1480-01	.5128-03	.4254-03	.5128-03	.3250	2.134	537.3
408	180.00	.15000	64.000	.8800-02	.7300-02	.8800-02	.3066-03	.2543-03	.3066-03	.1940	1.356	537.2
408	180.00	.15000	65.000	.6800-02	.5600-02	.6800-02	.2357-03	.1956-03	.2357-03	.4990	1.042	537.2
408	180.00	.16000	66.000	.2280-01	.1890-01	.2280-01	.7913-03	.6562-03	.7913-03	.4990	2.789	539.0
408	180.00	.17000	67.000	.6520-01	.5390-01	.6520-01	.2258-02	.1868-02	.2258-02	1.409	7.836	546.3
408	180.00	.20000	69.000	.1690-01	.1400-01	.1690-01	.5842-03	.4844-03	.5842-03	.3690	2.289	538.7
408	180.00	.40100	72.000	.8600-02	.7100-02	.8600-02	.2974-03	.2466-03	.2974-03	.1880	1.599	538.8
408	180.00	.50000	73.000	.1280-01	.1060-01	.1280-01	.4442-03	.3683-03	.4442-03	.2800	2.385	539.1
408	180.00	.60100	74.000	.1350-01	.1120-01	.1350-01	.4687-03	.3887-03	.4687-03	.2960	2.436	539.1
408	180.00	.70100	75.000	.8500-02	.7000-02	.8500-02	.2944-03	.2442-03	.2944-03	.1860	1.487	537.5

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B40)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = -7.000 SPDBRK = 40.00  
 BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
417	8.000	3.727	19.96	.0000	180.0	859.8	.8800-01	1348.	97.70	3.946	3874.	.7565-04
418	8.000	3.758	19.96	.0000	180.0	860.9	.8800-01	1342.	97.20	3.951	3865.	.7611-04
419	8.000	3.759	19.96	.0000	180.0	861.7	.8800-01	1342.	97.30	3.954	3866.	.7614-04

RUN NUMBER	MU	HREF BTU/R FT2SEC	ST FR R =
417	7864-07	.4909-01	0.0175
418	7827-07	.4908-01	.2104-01
419	7830-07	.4911-01	.2096-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1GTO) BTU/R FT2SEC	H1TO) BTU/R FT2SEC	H1TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
417	.00000	.00000	1.0000	.9136	.7347	.7526	.4485-01	.3606-01	.3695-01	24.81	130.6	659.9
417	.00000	.50000-02	2.0000	.7487	.6027	.6175	.3675-01	.2959-01	.3031-01	20.45	134.7	656.7
417	.00000	.10000-01	3.0000	.5685	.4627	.4945	.2791-01	.2271-01	.2427-01	16.45	106.7	623.8
417	.00000	.20000-01	4.0000	.3295	.2720	.3036	.1618-01	.1335-01	.1490-01	10.30	56.46	576.3
417	.00000	.30000-01	5.0000	.2299	.1903	.2168	.1128-01	.9343-02	.1064-01	7.317	40.33	564.7
417	.00000	.40000-01	6.0000	.1911	.1584	.1829	.9380-02	.7777-02	.8976-02	6.137	33.92	558.9
417	.00000	.50000-01	7.0000	.1678	.1388	.1622	.8238-02	.6815-02	.7962-02	5.319	35.49	567.5
417	.00000	.60000-01	8.0000	.1592	.1319	.1550	.7814-02	.6474-02	.7610-02	5.087	32.09	562.1
417	.00000	.70000-01	9.0000	.1307	.1083	.1282	.6418-02	.5315-02	.6298-02	4.168	28.73	563.8
417	.00000	.80000-01	10.000	.1061	.8800-01	.1047	.5209-02	.4321-02	.5139-02	3.414	23.60	55.8
417	.00000	.90000-01	11.000	.9390-01	.7790-01	.9300-01	.4608-02	.3827-02	.4563-02	3.042	19.28	552.9
417	.00000	.10000+00	12.000	.8830-01	.7340-01	.8780-01	.4336-02	.3602-02	.4310-02	2.867	17.19	552.0
417	.00000	.12000	14.000	.7540-01	.6270-01	.7530-01	.3702-02	.3077-02	.3698-02	2.458	13.66	549.1
417	.00000	.13000	15.000	.7030-01	.5840-01	.7040-01	.3452-02	.2869-02	.3454-02	2.290	13.39	549.8
417	.00000	.14000	16.000	.6340-01	.5270-01	.6350-01	.3113-02	.2587-02	.3119-02	2.064	13.10	550.1
417	.00000	.16000	18.000	.6280-01	.5210-01	.6300-01	.3081-02	.2560-02	.3093-02	2.039	12.57	551.5
417	.00000	.17000	19.000	.6220-01	.5160-01	.6250-01	.3052-02	.2535-02	.3068-02	2.016	12.78	552.5

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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(RV1840)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PLN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
417	.00000	.18000	23.000	.6170-01	.5120-01	.6210-01	.3029-02	.2516-02	.3047-02	2.000	12.67	552.9
417	.03000	.19000	21.000	.6330-01	.5260-01	.6380-01	.3109-02	.2584-02	.3131-02	2.062	13.09	549.9
417	.06000	.20000	22.000	.5660-01	.4870-01	.5910-01	.2876-02	.2389-02	.2900-02	1.501	12.05	552.3
417	.09000	.22500	23.000	.5350-01	.4440-01	.5410-01	.2626-02	.2182-02	.2654-02	1.738	11.02	551.4
417	.00000	.25000	801.00	.5120-01	.4250-01	.5180-01	.2511-02	.2186-02	.2542-02	1.661	10.54	551.6
417	.00000	.33000	802.00	.4640-01	.3850-01	.4700-01	.2277-02	.1892-02	.2305-02	1.506	9.547	551.9
417	.00000	.35000	803.00	.4490-01	.3730-01	.4540-01	.2203-02	.1829-02	.2230-02	1.451	9.190	554.4
417	.00000	.40000	804.00	.4450-01	.3700-01	.4510-01	.2186-02	.1815-02	.2213-02	1.440	9.383	554.6
417	.00000	.45000	805.00	.4250-01	.3530-01	.4310-01	.2090-02	.1735-02	.2116-02	1.375	9.230	555.3
417	.00000	.50000	806.00	.3510-01	.3000-01	.3550-01	.1774-02	.1472-02	.1796-02	1.166	8.070	555.8
417	.00000	.55000	807.00	.3350-01	.2790-01	.3400-01	.1650-02	.1258-02	.1670-02	1.081	7.969	558.0
417	.00000	.60000	808.00	.3070-01	.2550-01	.3110-01	.1509-02	.1251-02	.1528-02	0.950	7.283	559.5
417	.00000	.65000	809.00	.2730-01	.2240-01	.2740-01	.1338-02	.1101-02	.1344-02	.6570	6.387	560.1
417	.00000	.70000	810.00	.2900-01	.2320-01	.2840-01	.1376-02	.1140-02	.1393-02	.8970	6.833	561.0
417	.00000	.75000	811.00	.3330-01	.2900-01	.3420-01	.1657-02	.1373-02	.1678-02	1.079	7.941	561.9
417	.00000	.80000	812.00	.4310-01	.3570-01	.4370-01	.2117-02	.1753-02	.2144-02	1.377	10.13	562.6
417	.00000	.85000	813.00	.4630-01	.4000-01	.4940-01	.2373-02	.1955-02	.2427-02	1.543	11.74	563.0
417	.00000	.90000	814.00	.5140-01	.4260-01	.5270-01	.2526-02	.2094-02	.2537-02	1.649	11.76	560.1
417	.00000	.92500	815.00	.4370-01	.3630-01	.4490-01	.2148-02	.1781-02	.2205-02	1.407	11.53	557.9
417	.00000	.95000	816.00	.4320-01	.3580-01	.4450-01	.2122-02	.1760-02	.2183-02	1.389	11.38	558.4
417	.00000	.97500	817.00	.4270-01	.3540-01	.4410-01	.2098-02	.1740-02	.2164-02	1.374	11.25	558.4
417	.00000	1.0150	818.00	.1186	.9780-01	.1227	.5820-02	.4600-02	.6023-02	3.692	28.95	578.7
417	.00000	1.0300	819.00	.1921	.1580	.1989	.9430-02	.7755-02	.9765-02	5.886	42.74	589.0
417	.00000	821.00	821.00	.2010	.1645	.2083	.9956-02	.8074-02	.1023-01	5.934	48.87	605.6
417	.00000	89.000	89.000	.1850-01	.1540-01	.1850-01	.9076-03	.7595-03	.9076-03	6.120	3.697	538.5
417	.00000	91.000	91.000	.3330-01	.2810-01	.3380-01	.1660-02	.1320-02	.1650-02	1.111	6.875	543.5
417	.00000	90.000	90.000	.6000-02	.5700-02	.6800-02	.3359-03	.2759-03	.3329-03	.2270	1.367	538.8
417	.00000	823.00	823.00	.4900-01	.4060-01	.4960-01	.2406-02	.1994-02	.2436-02	1.570	12.38	560.8
417	.00000	824.00	824.00	.4600-01	.3810-01	.4660-01	.2257-02	.1870-02	.2285-02	1.468	11.57	562.7
417	.00000	825.00	825.00	.3110-01	.2580-01	.3150-01	.1427-02	.1265-02	.1546-02	.9950	8.789	561.5
417	.00000	826.00	826.00	.3930-01	.3220-01	.3940-01	.1908-02	.1580-02	.1932-02	1.239	9.112	563.6
417	.00000	827.00	827.00	.4160-01	.3450-01	.4220-01	.2045-02	.1693-02	.2070-02	1.329	9.777	563.0
417	.00000	828.00	828.00	.3820-01	.3160-01	.3910-01	.1874-02	.1554-02	.1920-02	1.225	9.667	559.7
418	20.000	10930+00	103.00	.1458	.1216	.1468	.7205-02	.5957-02	.7205-02	4.659	27.08	560.9
418	20.000	104.30	104.30	.6300-01	.6890-01	.8300-01	.4075-02	.3381-02	.4075-02	2.655	16.88	553.4
417	20.000	92500	971.00	.2750-01	.2280-01	.2750-01	.1351-02	.1120-02	.1351-02	.8840	6.521	558.5
417	20.000	95000	975.00	.3730-01	.3090-01	.3730-01	.1830-02	.1518-02	.1830-02	1.203	8.886	555.4
417	20.000	990.00	990.00	.6500-01	.4110-01	.4950-01	.2430-02	.2016-02	.2430-02	1.586	11.78	556.3
418	22.000	50000+01	105.00	.2172	.1796	.2172	.1066-01	.8816-02	.1066-01	6.832	37.62	566.6
418	24.000	20000	53.000	.5610-01	.4670-01	.5610-01	.2754-02	.2290-02	.2754-02	1.834	11.33	547.1
418	24.500	10000+00	105.00	.1648	.1363	.1648	.6088-02	.5688-02	.6088-02	5.185	32.64	566.3
418	25.500	15900	107.00	.9800-01	.8110-01	.9800-01	.4809-02	.4688-02	.4809-02	3.095	27.31	563.9
417	30.000	92500	970.00	.2630-01	.2220-01	.2680-01	.1314-02	.1091-02	.1314-02	.8650	6.385	555.2

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B40)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
417	30.000	.95000	974.00	.2150-01	.1790-01	.2150-01	.1057-02	.8786-03	.1057-02	.7030	5.211	547.7
417	30.000	.97500	979.00	.3040-01	.2530-01	.3040-01	.1492-02	.1240-02	.1492-02	.9890	7.323	550.2
413	31.500	.20000	108.00	.6630-01	.5500-01	.6630-01	.3256-02	.2698-02	.3256-02	2.112	21.23	558.7
417	32.000	.40000	831.00	.7250-01	.6010-01	.7340-01	.3580-02	.2950-02	.3604-02	2.321	16.02	561.3
417	32.000	.50000	832.00	.5570-01	.4690-01	.5740-01	.2783-02	.2304-02	.2818-02	1.805	12.84	564.5
417	32.000	.60000	833.00	.5010-01	.4150-01	.5080-01	.2461-02	.2038-02	.2492-02	1.595	10.66	565.0
417	32.000	.70000	834.00	.4140-01	.3430-01	.4190-01	.2033-02	.1682-02	.2058-02	1.312	9.961	567.6
417	32.000	.80000	835.00	.3510-01	.2990-01	.3350-01	.1722-02	.1426-02	.1743-02	1.119	7.969	563.0
417	32.000	.90000	836.00	.3160-01	.2620-01	.3240-01	.1552-02	.1287-02	.1590-02	1.015	7.481	559.0
417	32.000	.95000	837.00	.3880-01	.3230-01	.4010-01	.1911-02	.1585-02	.1966-02	1.252	9.549	558.1
417	32.000	.97500	838.00	.3220-01	.2670-01	.3320-01	.1582-02	.1313-02	.1631-02	1.039	8.218	556.2
417	32.000	1.01500	839.00	.7910-01	.6520-01	.7890-01	.3883-02	.3198-02	.3875-02	2.447	19.44	582.9
417	32.000	1.03000	840.00	.1828	.1493	.1824	.6373-02	.7358-02	.8955-02	5.509	41.89	599.2
417	32.000	1.04500	841.00	.2417	.1975	.2412	.1188-01	.9695-02	.1184-01	7.152	53.16	610.3
418	35.000	.50000-01	115.00	.1474	.1220	.1474	.7235-02	.5939-02	.7235-02	4.658	29.44	582.2
418	35.000	.20000	110.00	.7560-01	.6270-01	.7590-01	.3720-02	.3079-02	.3720-02	2.395	24.03	563.4
418	39.000	.10000+00	116.00	.1694	.5050-01	.1094	.5372-02	.4455-02	.5372-02	3.501	22.15	555.8
418	40.000	.76000-01	121.00	.8200-01	.6810-01	.8200-01	.4023-02	.3341-02	.4023-02	2.642	16.76	550.8
418	40.000	.15000	111.00	.1338	.1155	.1338	.6883-02	.5568-02	.6883-02	4.365	31.97	571.4
418	40.000	.20000	112.00	.7580-01	.6270-01	.7580-01	.3722-02	.3077-02	.3722-02	2.383	26.23	567.2
418	42.500	.50000-01	127.00	.1115	.9240-01	.1115	.5473-02	.4536-02	.5473-02	3.557	23.65	557.4
418	45.000	.15000	117.00	.8880-01	.7370-01	.8880-01	.4359-02	.3619-02	.4359-02	2.860	16.70	551.3
417	45.000	.92500	963.00	.1930-02	.1600-02	.1900-02	.9182-04	.7636-04	.9182-04	.6200-01	.4600	538.5
417	45.000	.95000	973.00	.1100-02	.9000-03	.1100-02	.5203-04	.4337-04	.5203-04	.3500-01	.2520	538.0
417	45.000	.97500	978.00	.4300-02	.3500-02	.4300-02	.2055-03	.1747-03	.2095-03	1.410	1.053	538.4
418	51.000	.20000	118.00	.4690-01	.3900-01	.4690-01	.2700-02	.1912-02	.2300-02	1.521	9.669	546.2
418	60.000	.50000-01	171.00	.6140-01	.5110-01	.6140-01	.3016-02	.2506-02	.3016-02	1.989	13.40	547.9
418	67.500	.20000	128.00	.2560-01	.2460-01	.2560-01	.1451-02	.1207-02	.1451-02	.9610	7.130	545.4
417	75.000	.97500	977.00	.2500-02	.2100-02	.2500-02	.1239-03	.1032-03	.1239-03	.8300-01	.6210	539.2
417	85.000	.97500	975.00	.7500-02	.6200-02	.7500-02	.3664-03	.3052-03	.3664-03	.2460	1.833	540.7
418	105.00	.40100	135.00	.1210-01	.1010-01	.1210-01	.5950-03	.4961-03	.5950-03	.3970	3.067	541.5
418	105.00	.50100	136.00	.1870-01	.1550-01	.1870-01	.9150-03	.7618-03	.9150-03	.6070	4.829	544.5
418	105.00	.60100	137.00	.2530-01	.2110-01	.2530-01	.1243-02	.1033-02	.1243-02	.8210	6.525	546.7
418	105.00	.70100	138.00	.3920-01	.3260-01	.3920-01	.1924-02	.1598-02	.1924-02	1.268	10.06	548.4
418	105.00	.80000	139.00	.2390-01	.1990-01	.2390-01	.1174-02	.9760-03	.1174-02	.7770	6.181	545.0
418	113.00	.60100	146.00	.2190-01	.1820-01	.2190-01	.1075-02	.8940-03	.1075-02	.7120	5.665	544.7
418	116.00	.60100	147.00	.2180-01	.1810-01	.2180-01	.1059-02	.8890-03	.1069-02	.7080	5.624	545.7
418	116.00	.75100	148.00	.2660-01	.2210-01	.2660-01	.1308-02	.1087-02	.1308-02	.8640	6.863	546.6
418	120.00	.10000+00	132.00	.2080-01	.1730-01	.2080-01	.1022-02	.8510-03	.1022-02	.6820	4.112	540.5
418	120.00	.87500	247.00	.1274	.1053	.1274	.6253-02	.5167-02	.6253-02	3.990	32.27	569.3
418	120.00	.82000	248.00	.7630-01	.6320-01	.7630-01	.3743-02	.3103-02	.3743-02	2.436	19.86	556.5
418	120.00	.82000	249.00	.4770-01	.3370-01	.4770-01	.2343-02	.1947-02	.2343-02	1.545	11.21	547.9
418	130.00	.82500	253.00	.1045	.8660-01	.1045	.5131-02	.4248-02	.5131-02	3.314	26.09	561.6

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## AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B40)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
418	130.00	.82900	254.00	.6110-01	.5070-01	.6110-01	.2998-02	.2488-02	.2998-02	1.963	15.07	552.6
418	130.00	.86200	255.00	.2900-01	.2410-01	.2900-01	.1422-02	.1183-02	.1422-02	.9430	7.743	544.3
418	135.00	.40100	142.00	.1000-02	.8000-03	.1000-02	.4691-04	.3909-04	.4691-04	.3100-01	.2440	537.0
418	135.00	.50100	143.00	.2800-02	.2300-02	.2800-02	.1382-03	.1151-03	.1382-03	.9200-01	.7610	538.7
418	135.00	.60100	144.00	.5900-02	.4900-02	.5900-02	.2900-03	.2415-03	.2900-03	.1940	1.499	539.1
418	135.00	.70100	145.00	.6100-02	.5100-02	.6100-02	.2989-03	.2489-03	.2989-03	.2000	1.594	539.1
418	140.00	.18000	85.000	.2180-01	.1810-01	.2180-01	.1069-02	.8895-03	.1069-02	.7090	5.450	544.0
418	140.00	.19500	87.000	.2550-01	.2130-01	.2550-01	.1257-02	.1046-02	.1257-02	.8340	6.404	544.3
418	145.00	.80500	259.00	.6800-01	.5650-01	.6800-01	.3338-02	.2771-02	.3338-02	2.188	16.80	552.0
419	145.00	.82900	260.00	.2910-01	.2420-01	.2910-01	.1427-02	.1187-02	.1427-02	.9460	7.082	544.7
419	145.00	.86200	261.00	.4900-02	.4100-02	.4900-02	.2368-03	.1989-03	.2368-03	.1600	1.317	538.8
418	150.00	.16000	86.000	.2500-01	.2080-01	.2500-01	.1229-02	.1022-02	.1229-02	.8150	6.049	544.6
418	150.00	.18000	84.000	.6060-01	.5030-01	.6060-01	.2976-02	.2471-02	.2976-02	1.951	14.43	552.0
418	150.00	.19000	82.000	.1200-02	.1000-02	.1200-02	.5737-04	.4781-04	.5737-04	.3900-01	.2870	535.9
418	155.00	.16000	80.000	.2240-01	.1860-01	.2240-01	.1099-02	.9143-03	.1099-02	.7300	5.422	543.3
418	155.00	.18000	83.000	.5000-03	.4000-03	.5000-03	.2425-04	.2021-04	.2425-04	.1600-01	.1220	535.3
418	160.00	.18000	77.000	.9760-01	.8080-01	.9760-01	.4791-02	.3966-02	.4791-02	3.093	24.39	561.8
418	175.00	.15000	81.000	.1770-01	.1470-01	.1770-01	.8674-03	.7218-03	.8674-03	.5770	4.150	542.2
418	175.00	.16500	79.000	.6130-01	.5080-01	.6130-01	.3006-02	.2495-02	.3006-02	1.966	14.53	553.5
418	175.00	.17500	78.000	.9090-01	.7530-01	.9090-01	.4461-02	.3698-02	.4461-02	2.901	20.71	557.1
417	180.00	.10000-01	53.000	.2788	.2297	.2788	.1369-01	.1128-01	.1369-01	8.634	62.50	582.3
417	180.00	.25000-01	60.000	.9060-01	.7530-01	.9060-01	.4449-02	.3698-02	.4449-02	2.953	21.16	549.4
417	180.00	.50000-01	61.000	.4270-01	.3560-01	.4270-01	.2097-02	.1746-02	.2097-02	1.409	8.978	541.4
417	180.00	.75000-01	62.000	.2030-01	.1700-01	.2030-01	.9986-03	.8323-03	.9986-03	.6740	4.300	538.5
417	180.00	.10000+00	63.000	.1270-01	.1060-01	.1270-01	.6234-03	.5197-03	.6234-03	.4210	2.766	538.0
417	180.00	.12500	64.000	.7700-02	.6400-02	.7700-02	.3795-03	.3164-03	.3795-03	.2560	1.790	537.8
417	180.00	.15000	65.000	.7000-02	.5800-02	.7000-02	.3418-03	.2950-03	.3418-03	.2310	1.612	537.8
417	180.00	.16000	66.000	.2770-01	.2310-01	.2770-01	.1360-02	.1132-02	.1360-02	.9100	5.071	543.6
417	180.00	.17000	67.000	.6550-01	.5450-01	.6550-01	.3217-02	.2674-02	.3217-02	2.133	11.84	550.1
417	180.00	.20000	69.000	.1640-01	.1360-01	.1640-01	.8031-03	.6689-03	.8031-03	.5400	3.347	540.8
417	180.00	.40100	72.000	.1430-01	.1190-01	.1430-01	.7017-03	.5842-03	.7017-03	.4700	3.993	543.0
417	180.00	.50000	73.000	.1540-01	.1280-01	.1540-01	.7548-03	.6283-03	.7548-03	.5060	4.292	543.3
417	180.00	.62100	74.000	.1410-01	.1180-01	.1410-01	.6936-03	.5773-03	.6936-03	.4640	3.815	543.5
417	180.00	.70100	75.000	.8200-02	.6800-02	.8200-02	.4033-03	.3359-03	.4033-03	.2710	2.160	541.0

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OH-49B (AEDC V41B-57A) ORF11ER FUSELAGE

(RV1B41)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = -7.000 SPOBRK = 40.00  
 BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
393	7.900	.5350	30.02	.0000	180.0	110.6	.1200-01	1281.	95.00	.5370	3774.	.1085-04
394	7.900	.5367	30.03	.0000	180.0	111.1	.1200-01	1282.	95.10	.5390	3775.	.1089-04
395	7.900	.5402	30.04	.0000	180.0	111.9	.1200-01	1283.	95.20	.5430	3776.	.1096-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R	ST FP R =
393	.7652-07	.1795-01	0.0175
394	.7659-07	.1799-01	.5517-01
395	.7663-07	.1806-01	.5499-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1STO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
393	.00000	.00000	1.0000	.7969	.6527	.6858	.1430-01	.1172-01	.1231-01	8.299	45.55	573.0
393	.00000	.50000-02	2.0000	.7499	.6135	.6169	.1346-01	.1101-01	.1107-01	7.754	53.09	577.2
393	.00000	.10000-01	3.0000	.6334	.5195	.5370	.1137-01	.9325-02	.9638-02	6.644	44.29	569.0
393	.00000	.30000-01	5.0000	.3006	.2478	.2714	.5395-02	.4448-02	.4872-02	3.246	18.01	551.6
393	.00000	.40000-01	6.0000	.2464	.2032	.2256	.4423-02	.3648-02	.4049-02	2.665	14.79	550.8
393	.00000	.50000-01	7.0000	.2157	.1777	.1994	.3872-02	.3190-02	.3578-02	2.322	15.60	553.5
393	.00000	.60000-01	8.0000	.2285	.1884	.2128	.4102-02	.3391-02	.3819-02	2.465	15.63	552.1
393	.00000	.70000-01	9.0000	.1963	.1618	.1841	.3523-02	.2904-02	.3304-02	2.117	14.68	552.2
393	.00000	.80000-01	10.000	.1571	.1296	.1482	.2820-02	.2326-02	.2661-02	1.703	11.83	549.3
393	.00000	.90000-01	11.000	.1503	.1241	.1424	.2897-02	.2227-02	.2556-02	1.473	10.40	546.6
393	.00000	.10000+00	12.000	.1351	.1116	.1285	.2425-02	.2002-02	.2306-02	1.636	8.864	545.6
393	.00000	.12000	14.000	.1209	.9990-01	.1156	.2173-02	.1794-02	.2076-02	1.323	7.372	543.5
393	.00000	.13000	15.000	.1150	.9500-01	.1102	.2064-02	.1706-02	.1977-02	1.259	7.382	543.4
393	.00000	.14000	16.000	.1048	.8660-01	.1006	.1882-02	.1555-02	.1805-02	1.148	7.310	543.2
393	.00000	.16000	18.000	.1092	.9030-01	.1050	.1961-02	.1620-02	.1885-02	1.197	7.410	542.9
393	.00000	.17000	19.000	.1069	.8830-01	.1029	.1918-02	.1586-02	.1847-02	1.171	7.455	543.1
393	.00000	.18000	20.000	.1051	.8690-01	.1013	.1887-02	.1560-02	.1818-02	1.152	7.339	542.6

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
393	.00000	.19000	21.000	.9830-01	.8130-01	.9480-01	.1754-02	.1459-02	.1702-02	1.081	6.896	540.1
393	.00000	.20000	22.000	.1011	.8350-01	.9770-01	.1815-02	.1501-02	.1754-02	1.110	7.072	541.8
393	.00000	.22500	23.000	.9470-01	.7830-01	.9180	.1700-02	.1406-02	.1647-02	1.042	6.642	540.6
393	.00000	.25000	801.00	.9160-01	.7580-01	.8890-01	.1644-02	.1360-02	.1595-02	1.008	6.426	540.4
393	.00000	.30000	802.00	.8300-01	.6870-01	.8060-01	.1431-02	.1233-02	.1446-02	.9140	5.829	540.1
393	.00000	.35000	803.00	.8520-01	.7050-01	.8270-01	.1530-02	.1265-02	.1484-02	.9370	5.970	541.0
393	.00000	.40000	804.00	.8490-01	.7020-01	.8230-01	.1523-02	.1260-02	.1478-02	.9330	6.123	540.8
393	.00000	.45000	805.00	.7690-01	.6360-01	.7460-01	.1380-02	.1141-02	.1339-02	.8440	5.707	541.3
393	.00000	.50000	806.00	.7100-01	.5870-01	.6890-01	.1274-02	.1053-02	.1236-02	.7800	5.437	541.2
393	.00000	.55000	807.00	.6670-01	.5510-01	.6470-01	.1196-02	.9887-03	.1160-02	.7310	5.434	542.1
393	.00000	.60000	808.00	.6170-01	.5100-01	.5990-01	.1107-02	.8697-03	.1074-02	.6420	5.035	541.7
393	.00000	.65000	809.00	.5650-01	.4650-01	.5690-01	.1052-02	.8697-03	.1021-02	.6180	4.773	542.8
393	.00000	.70000	810.00	.5640-01	.4660-01	.5470-01	.1012-02	.8463-03	.9817-03	4.751	4.751	542.5
393	.00000	.75000	811.00	.5390-01	.4460-01	.5230-01	.9676-03	.7999-03	.9358-03	4.394	4.666	541.6
393	.00000	.80000	812.00	.5720-01	.4730-01	.5550-01	.1026-02	.8482-03	.9955-03	4.666	4.666	541.6
393	.00000	.85000	813.00	.5140-01	.4260-01	.5060-01	.9232-03	.7639-03	.9816-03	4.713	4.713	541.1
393	.00000	.90000	814.00	.3870-01	.3200-01	.3810-01	.6938-03	.5742-03	.6838-03	4.270	4.085	539.1
393	.00000	.92500	815.00	.1590-01	.1310-01	.1770-01	.3217-03	.2654-03	.3179-03	1.980	1.644	538.0
393	.00000	.95000	816.00	.1590-01	.1310-01	.1570-01	.2845-03	.2355-03	.2819-03	1.750	1.451	536.3
393	.00000	.97500	817.00	.1430-01	.1180-01	.1420-01	.2564-03	.2120-03	.2547-03	1.570	1.166	541.5
393	.00000	1.0150	818.00	.6830-01	.5640-01	.6780-01	.1226-02	.1013-02	.1218-02	1.740	1.545	544.0
393	.00000	1.0600	821.00	.1253	.1034	.1245	.2249-02	.1856-02	.2234-02	1.363	1.144	547.3
393	.00000	.89.000	89.000	.1030-01	.8500-02	.1030-01	.1845-03	.1529-03	.1645-03	.6920	.6920	533.5
393	.00000	.20000	91.000	.1370-01	.1140-01	.1370-01	.2459-03	.2039-03	.2459-03	.9530	.9530	530.9
393	.00000	.50000-01	90.000	.1540-01	.1270-01	.1540-01	.2759-03	.2288-03	.2759-03	1.720	1.041	530.8
393	.00000	.40000	823.00	.8370-01	.6920-01	.8120-01	.1503-02	.1242-02	.1458-02	9.150	7.283	544.2
393	.00000	.50000	824.00	.7820-01	.6510-01	.7650-01	.1415-02	.1169-02	.1373-02	8.610	6.847	544.9
393	.00000	.60000	825.00	.5420-01	.4470-01	.5250-01	.9721-03	.8031-03	.9431-03	5.920	5.274	544.3
393	.00000	.70000	826.00	.6180-01	.5100-01	.5990-01	.1109-02	.9162-03	.1076-02	5.011	5.011	544.7
393	.00000	.80000	827.00	.5930-01	.4900-01	.5750-01	.1064-02	.8797-03	.1033-02	4.831	4.831	542.4
393	.00000	.90000	828.00	.4550-01	.3760-01	.4470-01	.8158-03	.6748-03	.8020-03	3.990	3.990	539.8
394	.00000-00	103.00	103.00	.2048	.1692	.2048	.3585-02	.3044-02	.3695-02	2.245	13.16	544.9
394	.00000	.15000	104.00	.1259	.1041	.1259	.2264-02	.1872-02	.2264-02	1.387	8.837	541.8
393	.00000	.92500	971.00	.2270-01	.1980-01	.2270-01	.4075-03	.3376-03	.4075-03	2.520	1.881	534.6
393	.00000	.95000	975.00	.4510-01	.3740-01	.4510-01	.8101-03	.6706-03	.8101-03	4.990	3.721	537.0
393	.00000	.97500	980.00	.4350-01	.3600-01	.4350-01	.7801-03	.6462-03	.7801-03	4.830	3.601	534.6
394	.00000-01	105.00	105.00	.2358	.1948	.2358	.4242-02	.3506-02	.4242-02	2.589	14.42	543.9
393	.00000	.20000	93.000	.9500-02	.7900-02	.9500-02	.1705-03	.1414-03	.1705-03	1.060	.6610	530.7
394	.00000-00	106.00	106.00	.2208	.1824	.2208	.3974-02	.3281-02	.3974-02	2.415	15.36	546.2
394	.25.500	.15000	107.00	.1172	.1172	.1419	.2553-02	.2109-02	.2553-02	1.553	13.83	545.8
393	.00000	.92500	970.00	.1330-01	.1100-01	.1330-01	.2391-03	.1983-03	.2391-03	1.490	1.111	531.7
393	.00000	.95000	974.00	.2500-01	.2070-01	.2500-01	.4488-03	.3720-03	.4488-03	2.780	2.078	533.2

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISTO) BTU/ R FT2SEC	H(ITO) BTU/ R FT2SEC	H(ITAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TH DEG. R
393	30.000	.97500	979.00	.1830-01	.1320-01	.1830-01	.3287-03	.2127-03	.3287-03	.2050	1.537	528.3
394	31.500	.20000	108.00	.9500-01	.7860-01	.9500-01	.1710-02	.1710-02	.1710-02	1.046	10.60	542.5
393	32.000	.40000	831.00	.1033	.8540-01	.1002	.1854-02	.1532-02	.1799-02	1.132	7.887	542.6
393	32.000	.50000	832.00	.8890-01	.7340-01	.8620-01	.1596-02	.1318-02	.1548-02	.9700	6.967	545.3
393	32.000	.60000	833.00	.7550-01	.6230-01	.7320-01	.1355-02	.1119-02	.1314-02	.8230	5.551	545.8
393	32.000	.70000	834.00	.4210-01	.3480-01	.4090-01	.7560-03	.6242-03	.7334-03	.4590	3.521	546.3
393	32.000	.80000	835.00	.5040-01	.4170-01	.4890-01	.9053-03	.7484-03	.8784-03	.5530	3.978	546.3
393	32.000	.90000	836.00	.4550-01	.3760-01	.4470-01	.8169-03	.6758-03	.8030-03	.5010	3.732	539.4
393	32.000	.95000	837.00	.4740-01	.3920-01	.4680-01	.8509-03	.7042-03	.8409-03	.5240	4.034	538.0
393	32.000	.97500	838.00	.1260-01	.1040-01	.1250-01	.3258-03	.1871-03	.2237-03	.1400	1.121	532.9
393	32.000	1.0150	839.00	.2130-01	.1760-01	.2040-01	.3830-03	.3166-03	.3660-03	.2340	1.900	541.6
393	32.000	1.0300	840.00	.7930-01	.6550-01	.7570-01	.1423-02	.1175-02	.1359-02	.8650	6.753	513.5
393	32.000	1.0450	841.00	.1272	.1051	.1215	.2284-02	.1886-02	.2182-02	1.386	10.63	546.3
394	35.000	.50000-01	115.00	.1421	.1175	.1421	.2557-02	.2114-02	.2557-02	1.566	9.981	541.8
394	35.000	.20000	110.00	.1060	.8750-01	.1060	.1907-02	.1575-02	.1907-02	1.162	11.76	544.6
394	39.000	.10000-00	116.00	.1130	.9350-01	.1130	.2033-02	.1682-02	.2033-02	1.246	7.942	541.4
394	40.000	.76000-01	121.00	.7730-01	.6400-01	.7730-01	.1391-02	.1151-02	.1391-02	.8570	5.469	538.2
394	40.000	.15000	111.00	.1794	.1481	.1794	.3229-02	.2665-02	.3229-02	1.957	14.50	548.1
394	40.000	.20000	112.00	.1021	.8430-01	.1021	.1836-02	.1517-02	.1836-02	1.117	12.44	545.8
394	42.500	.50000-01	127.00	.1031	.8530-01	.1031	.1855-02	.1534-02	.1855-02	1.139	7.703	540.2
394	45.000	.15000	117.00	.9530-01	.7880-01	.9530-01	.1715-02	.1418-02	.1715-02	1.053	6.168	539.9
393	45.000	.92500	969.00	.1700-02	.1400-02	.1700-02	.3024-04	.2509-04	.3024-04	.1900-01	.1410	529.0
393	45.000	.95000	973.00	.5000-03	.4000-03	.5000-03	.9493-05	.7875-05	.9493-05	.6000-02	.4400-01	529.8
393	45.000	.97500	978.00	.5000-03	.4000-03	.5030-03	.9197-05	.7630-05	.9197-05	.6000-02	.4300-01	529.2
394	51.000	.20000	118.00	.5150-01	.4260-01	.5150-01	.9265-03	.7772-03	.9265-03	.5720	3.654	536.9
394	60.000	.50000-01	131.00	.4110-01	.3400-01	.4110-01	.7388-03	.6119-03	.7388-03	.4570	3.097	535.8
394	67.500	.20000	128.00	.3060-01	.2530-01	.3060-01	.5501-03	.4557-03	.5501-03	.3400	2.539	535.5
393	75.000	.97500	977.00	.2000-03	.2000-03	.2000-03	.3648-05	.3027-05	.3648-05	.2000-02	.1700-01	529.3
393	85.000	.97500	976.00	.1400-02	.1200-02	.1400-02	.2552-04	.2117-04	.2552-04	.1600-01	.1190	529.5
394	105.00	.40100	135.00	.2420-01	.2010-01	.2420-01	.4359-03	.3613-03	.4359-03	.2710	2.104	532.7
394	105.00	.50100	136.00	.2140-01	.1770-01	.2140-01	.3852-03	.3192-03	.3852-03	.2390	1.912	534.1
394	105.00	.60100	137.00	.1230-01	.1020-01	.1230-01	.2217-03	.1838-03	.2217-03	.1380	1.103	533.1
394	105.00	.70100	138.00	.6500-02	.5400-02	.6500-02	.1173-03	.9730-04	.1173-03	.7300-01	.5850	531.8
394	105.00	.80000	139.00	.1000-02	.8000-02	.1000-02	.1784-04	.1480-04	.1784-04	.1100-01	.8900-01	529.8
394	113.00	.60100	146.00	.1940-01	.1610-01	.1940-01	.3487-03	.2890-03	.3487-03	.2170	1.735	533.1
394	116.00	.60100	147.00	.1710-01	.1410-01	.1710-01	.3063-03	.2543-03	.3063-03	.1900	1.525	533.5
394	116.00	.75100	148.00	.8000-02	.6500-02	.8000-02	.1440-03	.1194-03	.1440-03	.9000-01	.7180	531.9
394	120.00	.10000-00	132.00	.1180-01	.9800-02	.1180-01	.2122-03	.1758-03	.2122-03	.1320	.7960	534.1
394	120.00	.80500	247.00	.9500-02	.7900-02	.9500-02	.1704-03	.1414-03	.1704-03	.1060	.8820	529.6
394	120.00	.82900	248.00	.1240-01	.1030-01	.1240-01	.2229-03	.1849-03	.2229-03	.1390	1.152	530.0
394	120.00	.86200	249.00	.1420-01	.1180-01	.1420-01	.2560-03	.2124-03	.2560-03	.1600	1.173	529.6
394	130.00	.80500	253.00	.1100-01	.9200-02	.1100-01	.1986-03	.1648-03	.1986-03	.1240	.9960	529.2
394	130.00	.82900	254.00	.1870-01	.1550-01	.1870-01	.3368-03	.2794-03	.3368-03	.2100	1.636	529.9

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
394	130.00	.86200	255.00	.1890-01	.1570-01	.1890-01	.3399-03	.2820-03	.3399-03	.2120	1.757	530.0
394	135.00	.40100	142.00	.1800-02	.1500-02	.1800-02	.3280-04	.2721-04	.3280-04	.2000-01	1.590	530.1
394	135.00	.50100	143.00	.3400-02	.2900-02	.3400-02	.6201-04	.5143-04	.6201-04	.3900-01	1.320	530.6
394	135.00	.60100	144.00	.2800-02	.2300-02	.2800-02	.5015-04	.4159-04	.5015-04	.3100-01	1.240	531.0
394	135.00	.70100	145.00	.3200-02	.2600-02	.3200-02	.5698-04	.4727-04	.5698-04	.3600-01	1.280	530.1
394	140.00	.18000	85.000	.8300-02	.5900-02	.8300-02	.1459-03	.1242-03	.1459-03	.9300-01	1.720	531.1
394	140.00	.19500	87.000	.6900-02	.5700-02	.6900-02	.1243-03	.1031-03	.1243-03	.7700-01	1.590	531.5
394	145.00	.80500	259.00	.8300-02	.6900-02	.8300-02	.1491-03	.1238-03	.1491-03	.9300-01	1.720	528.9
395	145.00	.82900	260.00	.5800-02	.4600-02	.5800-02	.1045-03	.0870-04	.1045-03	.6500-01	1.490	528.5
394	145.00	.86200	261.00	.3900-02	.3200-02	.3900-02	.7026-04	.5832-04	.7026-04	.4400-01	1.360	528.1
394	150.00	.16000	86.000	.5700-02	.4800-02	.5700-02	.1332-03	.0850-04	.1032-03	.6400-01	1.480	532.0
394	150.00	.18000	84.000	.9500-02	.7900-02	.9500-02	.1708-03	.1416-03	.1708-03	.1060	1.790	531.8
394	150.00	.19000	82.000	.7000-03	.6000-03	.7000-03	.1301-04	.1080-04	.1301-04	.8000-02	1.6100-01	529.5
394	155.00	.16000	80.000	.6600-02	.5500-02	.6600-02	.1195-03	.0904-04	.1195-03	.7400-01	1.550	532.2
394	160.00	.18000	77.000	.1190-01	.9900-02	.1190-01	.2145-03	.1778-03	.2145-03	.1330	1.057	532.6
394	175.00	.15000	81.000	.1520-01	.1260-01	.1520-01	.2741-03	.2272-03	.2741-03	.1700	1.230	533.0
394	175.00	.16500	79.000	.1530-01	.1270-01	.1530-01	.2746-03	.2276-03	.2746-03	.1710	1.275	532.8
394	175.00	.17500	78.000	.3200-01	.2650-01	.3200-01	.5754-03	.4769-03	.5754-03	.3570	2.581	533.4
393	180.00	.10000-01	59.000	.1886	.1555	.1886	.3385-02	.2792-02	.3385-02	2.042	15.12	549.9
393	180.00	.25000-01	60.000	.5400-01	.4460-01	.5400-01	.9687-03	.8009-03	.9687-03	.5920	4.261	541.8
393	180.00	.50000-01	61.000	.2460-01	.2040-01	.2460-01	.4417-03	.3656-03	.4417-03	.2720	1.734	537.7
393	180.00	.75000-01	62.000	.1410-01	.1170-01	.1410-01	.2537-03	.2101-03	.2537-03	.1570	1.002	535.6
393	180.00	1.0000+00	63.000	.1040-01	.8600-02	.1040-01	.1872-03	.1551-03	.1872-03	.1160	.7640	533.8
393	180.00	.12500	64.000	.9700-02	.8100-02	.9700-02	.1747-03	.1448-03	.1747-03	.1080	.7590	532.7
393	180.00	.15000	65.000	.1100-01	.9100-02	.1100-01	.1977-03	.1639-03	.1977-03	.1230	.8600	532.1
393	180.00	.16000	66.000	.2510-01	.2080-01	.2510-01	.4502-03	.3731-03	.4502-03	.2790	1.564	533.0
393	180.00	.17000	67.000	.6440-01	.5340-01	.6440-01	.1156-02	.9580-03	.1156-02	.7150	4.004	534.6
393	180.00	.20000	69.000	.1550-01	.1290-01	.1550-01	.2783-03	.2308-03	.2783-03	.1730	1.078	531.6
393	180.00	.40100	72.000	.4500-02	.3700-02	.4500-02	.8107-04	.6724-04	.8107-04	.5000-01	.4320	530.4
393	180.00	.57000	73.000	.4600-02	.4000-02	.4600-02	.8695-04	.7210-04	.8695-04	.5400-01	.4630	530.8
393	180.00	.60100	74.000	.5900-02	.4900-02	.5900-02	.1050-03	.8709-04	.1050-03	.6500-01	.5410	530.7
393	180.00	.70100	75.000	.5600-02	.4600-02	.5600-02	.9997-04	.8292-04	.9997-04	.6200-01	.5000	530.3

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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FUSELAGE

PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = -7.000 SPOBRK = 40.00  
BDFLAP = 15.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

CH	SW/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
41	1.021	30.03	.0000	180.0	211.2	.2300-01	1271.	93.40	1.003	3759.	.2042-04
403	1.023	30.04	.0000	180.0	210.9	.2300-01	1267.	93.10	1.001	3755.	.2044-04
404	1.031	30.06	.0000	180.0	211.8	.2300-01	1265.	93.00	1.006	3751.	.2057-04

RUN NUMBER	MU LB-SEC /FT2	HREF STU/ R FT2SEC	ST FR R =
402	.7517-07	.2449-01	0.0175
403	.7498-07	.2447-01	.4022-01
404	.7483-07	.2451-01	.4008-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	W(GTO) STU/ R FT2SEC	H(TO) STU/ R FT2SEC	H(TAW) STU/ R FT2SEC	QOOT BTU/ R FT2SEC	OTWOT DEG. R /SEC	TH DEG. R
402	.00000	.00000	1.0000	.7849	.6401	.6732	.1923-01	.1568-01	.1649-01	10.80	59.01	581.9
402	.00000	.50000-02	2.0000	.7504	.6108	.6143	.1838-01	.1496-01	.1505-01	10.22	69.59	587.6
402	.00000	.10000-01	3.0000	.6238	.5095	.5269	.1528-01	.1248-01	.1291-01	8.654	57.46	577.1
402	.00000	.20000-01	4.0000	.3943	.3240	.3482	.3658-02	.7935-02	.8530-02	5.651	31.25	558.4
402	.00000	.30000-01	5.0000	.2888	.2376	.2605	.7075-02	.5821-02	.6382-02	4.171	23.11	554.0
402	.00000	.40000-01	6.0000	.2440	.2009	.2231	.5975-02	.4920-02	.5465-02	3.539	19.64	551.1
402	.00000	.50000-01	7.0000	.2291	.1846	.2115	.5612-02	.4613-02	.5181-02	3.294	22.10	556.5
402	.00000	.60000-01	8.0000	.2243	.1846	.2087	.5495-02	.4521-02	.5112-02	3.241	20.53	553.7
402	.00000	.70000-01	9.0000	.1918	.1578	.1798	.4699-02	.3865-02	.4403-02	2.767	19.16	554.5
402	.00000	.80000-01	10.000	.1535	.1264	.1447	.3095-02	.3095-02	.3545-02	2.221	15.40	552.8
402	.00000	.90000-01	11.000	.1462	.1204	.1384	.3581-02	.2950-02	.3390-02	2.126	13.49	549.9
402	.00000	.10000+00	12.000	.1335	.1059	.1269	.3269-02	.2693-02	.3107-02	1.942	11.66	549.3
402	.00000	.12000	14.000	.1185	.9770-01	.1133	.2902-02	.2393-02	.2774-02	1.733	9.644	546.2
402	.00000	.13000	15.000	.1121	.9240-01	.1073	.2746-02	.2264-02	.2629-02	1.639	9.597	546.5
402	.00000	.14000	16.000	.1040	.9570-01	.9970-01	.2547-02	.2100-02	.2442-02	1.521	9.667	546.5
402	.00000	.16000	18.000	.1065	.8780-01	.1023	.2608-02	.2151-02	.2506-02	1.557	9.620	546.7
402	.00000	.17000	19.000	.1051	.8660-01	.1011	.2574-02	.2122-02	.2476-02	1.535	9.755	547.1

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AEDC VKF V41B-57A (OH-49B) COLLATION DEC'

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(1TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	OTWOT DLG. R /SEC	TH DEC. R
402	.00000	.18000	20.000	.1044	.8610-01	.1005	.2557-02	.2103-02	.2453-02	1.526	9.700	546.8
402	.00000	.19000	21.000	.1164	.9600-01	.1122	.2851-02	.2352-02	.2749-02	1.526	10.166	544.7
402	.00000	.20000	22.000	.1007	.8300-01	.9720-01	.2467-02	.2034-02	.2362-02	1.473	9.36F	546.2
402	.00000	.22500	23.000	.0830-01	.7280-01	.8550-01	.2162-02	.1734-02	.2054-02	1.294	8.233	545.0
402	.00000	.25000	801.00	.8660-01	.7150-01	.8400-01	.2122-02	.1751-02	.2059-02	1.270	8.083	544.9
402	.00000	.30000	802.00	.8190-01	.6750-01	.7940-01	.2006-02	.1654-02	.1945-02	1.199	7.627	545.6
402	.00000	.35000	803.00	.6330-01	.6920-01	.8140-01	.2055-02	.1695-02	.1994-02	1.226	7.790	547.3
402	.00000	.40000	804.00	.9240-01	.6800-01	.8000-01	.2020-02	.1665-02	.1959-02	1.205	7.883	546.9
402	.00000	.45000	805.00	.7390-01	.6080-01	.7150-01	.1607-02	.1489-02	.1752-02	1.076	7.253	547.8
402	.00000	.50000	806.00	.6910-01	.5700-01	.6700-01	.1692-02	.1395-02	.1641-02	1.008	7.007	547.7
402	.00000	.55000	807.00	.6510-01	.5440-01	.6410-01	.1619-02	.1334-02	.1570-02	.9620	7.127	549.1
402	.00000	.60000	808.00	.6020-01	.4950-01	.5840-01	.1475-02	.1215-02	.1430-02	.8770	6.499	548.7
402	.00000	.65000	809.00	.5670-01	.4670-01	.5530-01	.1389-02	.1145-02	.1347-02	.8250	6.108	549.8
402	.00000	.70000	810.00	.5300-01	.4780-01	.5620-01	.1421-02	.1170-02	.1378-02	.8430	6.460	549.9
402	.00000	.75000	811.00	.5380-01	.4430-01	.5220-01	.1318-02	.1086-02	.1278-02	.7830	5.796	549.7
402	.00000	.80000	812.00	.5560-01	.4670-01	.5490-01	.1387-02	.1143-02	.1345-02	.8250	6.111	548.9
402	.00000	.85000	813.00	.5410-01	.4460-01	.5300-01	.1325-02	.1092-02	.1299-02	.7880	6.044	548.3
402	.00000	.90000	814.00	.4990-01	.4120-01	.4910-01	.1223-02	.1008-02	.1202-02	.7310	5.248	545.8
402	.00000	.92500	815.00	.4090-01	.3280-01	.4030-01	.1003-02	.8271-03	.9878-03	.6010	4.955	544.4
402	.00000	.95000	816.00	.2370-01	.1950-01	.2340-01	.5802-03	.4789-03	.5772-03	.3480	2.876	543.1
402	.00000	.97500	817.00	.1550-01	.1280-01	.1540-01	.3808-03	.3142-03	.3772-03	.2280	1.861	544.6
402	.00000	.1.0150	818.00	.2600-01	.2350-01	.2860-01	.7043-03	.5792-03	.6996-03	.3.061	3.061	555.0
402	.00000	.1.0300	819.00	.1445	.1187	.1436	.3540-02	.2908-02	.3517-02	15.24	15.24	559.3
402	.00000	.1.0600	821.00	.2522	.2065	.2505	.6178-02	.5057-02	.6136-02	29.38	29.38	570.4
402	.00000	.15000	89.000	.8300-02	.6900-02	.8300-02	.2037-03	.1634-03	.2037-03	.1240	.7460	537.2
402	.00000	.20000	91.000	.1460-01	.1210-01	.1460-01	.3580-03	.2962-03	.3580-03	.2180	1.355	534.7
402	.00000	.40000	823.00	.6550-01	.7040-01	.8230-01	.2091-02	.1725-02	.2031-02	1.242	9.852	550.4
402	.00000	.50000	824.00	.7620-01	.6270-01	.7390-01	.1866-02	.1536-02	.1809-02	1.104	8.754	551.6
402	.00000	.60000	825.00	.5140-01	.4230-01	.4930-01	.1259-02	.1036-02	.1221-02	.7450	6.612	551.8
402	.00000	.70000	826.00	.5490-01	.4520-01	.5320-01	.1345-02	.1107-02	.1304-02	.7960	5.885	551.8
402	.00000	.80000	827.00	.5800-01	.4780-01	.5630-01	.1421-02	.1171-02	.1378-02	.8440	6.248	549.8
402	.00000	.90000	828.00	.4470-01	.3680-01	.4390-01	.1094-02	.9021-03	.1075-02	.6530	5.192	546.3
403	.00000	.10000+00	103.00	.2012	.1657	.2012	.9244-02	.4055-02	.4924-02	2.911	17.02	549.6
403	.00000	.15000	104.00	.1251	.1031	.1251	.3051-02	.2522-02	.3061-02	1.816	11.54	547.5
403	.00000	.20000	971.00	.3150-01	.2600-01	.3150-01	.7720-03	.6372-03	.7720-03	.4640	3.444	543.1
402	.00000	.25000	975.00	.4670-01	.3650-01	.4670-01	.1143-02	.9433-03	.1143-02	.6850	5.100	542.9
402	.00000	.30000	980.00	.5310-01	.4380-01	.5310-01	.1301-02	.1074-02	.1301-02	.7820	5.814	542.2
403	.00000	.35000+01	105.00	.2342	.1930	.2342	.5731-02	.4721-02	.5731-02	3.398	18.89	547.8
403	.00000	.40000	93.000	.1080-01	.8900-02	.1080-01	.2641-03	.2185-03	.2641-03	.1610	20.33	534.9
403	.00000	.45000+00	106.00	.2223	.1830	.2223	.5440-02	.4477-02	.5440-02	3.206	18.14	551.5
403	.00000	.50000	107.00	.1416	.1166	.1416	.3465-02	.2852-02	.3465-02	2.043	2.012	551.3
402	.00000	.55000	970.00	.1820-01	.1510-01	.1820-01	.4463-03	.3689-03	.4463-03	.2700	2.829	538.1
402	.00000	.60000	974.00	.2550-01	.2120-01	.2550-01	.6280-03	.5190-03	.6280-03	.3800		538.6

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NG	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(GTO) BTU/ R FT2SEC	H(TOI) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	QDOT DEG. R /SEC	TH DEG. R
402	30.000	.97500	979.00	.2250-01	.1860-01	.2250-01	.5505-03	.4550-03	.5505-03	.3330	2.481	538.3
403	31.500	.20000	108.00	.9580-01	.7890-01	.9580-01	.2344-02	.1930-02	.2344-02	1.386	14.00	549.3
402	32.000	.40000	831.00	.1085	.8780-01	.1033	.2610-02	.2150-02	.2531-02	1.551	10.77	549.3
402	32.000	.50000	832.00	.8820-01	.7260-01	.8560-01	.1897-02	.1561-02	.2096-02	1.279	9.154	551.8
403	32.000	.60000	833.00	.7750-01	.6370-01	.7510-01	.1719-02	.1415-02	.1839-02	1.120	7.527	552.0
402	32.000	.70000	834.00	.7020-01	.5700-01	.6810-01	.1316-02	.1084-02	.1667-02	1.017	7.782	549.5
402	32.000	.80000	835.00	.5370-01	.4430-01	.5210-01	.1110-02	.0913-03	.1276-02	.6630	5.601	545.9
402	32.000	.90000	836.00	.4530-01	.3710-01	.4450-01	.1269-02	.1046-02	.1091-02	7.580	5.822	545.7
402	32.000	.95000	837.00	.5160-01	.4270-01	.5120-01	.1269-02	.1046-02	.1253-02	.2770	2.211	541.0
402	32.000	.97500	838.00	.1880-01	.1550-01	.1860-01	.4608-03	.3804-03	.4562-03	.4790	3.854	557.2
402	32.000	1.0150	839.00	.3340-01	.2740-01	.3180-01	.3324-02	.2728-02	.3171-02	1.934	14.98	561.9
402	32.000	1.0300	840.00	.1357	.1114	.1294	.4406-02	.3616-02	.4203-02	2.563	19.51	546.5
403	35.000	.50000-01	115.00	.1799	.1476	.1716	.3462-02	.2853-02	.3462-02	2.057	13.08	552.7
403	35.000	.20000	110.00	.1043	.8590-01	.1043	.2552-02	.2100-02	.2552-02	1.501	15.13	545.0
403	39.000	.10000+00	116.00	.1086	.8930-01	.1086	.2656-02	.2190-02	.2656-02	1.582	10.07	542.1
403	40.000	.76000-01	121.00	.7910-01	.6530-01	.7910-01	.1936-02	.1598-02	.1936-02	2.535	18.73	553.6
403	40.000	.15000	111.00	.1764	.1451	.1764	.4317-02	.3550-02	.4317-02	1.493	16.55	553.4
403	40.000	.20000	112.00	.1039	.8540-01	.1039	.2542-02	.2091-02	.2542-02	1.480	9.993	543.7
403	42.500	.50000-01	127.00	.9190-01	.7580-01	.9190-01	.2248-02	.1854-02	.2248-02	1.342	7.870	543.7
402	45.000	.92500	969.00	.1700-02	.1400-02	.1700-02	.4221-04	.3495-04	.4221-04	.2600-01	.1930	532.4
402	45.000	.95000	973.00	.3000-03	.3000-03	.3000-03	.8484-05	.7020-05	.8484-05	.5000-02	.3900-01	532.3
402	45.000	.97500	978.00	.5000-03	.5000-03	.5000-03	.1347-04	.1116-04	.1347-04	.8000-02	.6200-01	531.8
403	51.000	.20000	118.00	.4750-01	.3920-01	.4750-01	.1162-02	.9593-03	.1162-02	.6980	4.448	540.3
403	60.000	.50000-01	131.00	.3820-01	.3150-01	.3820-01	.9341-03	.7717-03	.9341-03	.5620	3.807	538.7
403	67.500	.20000	128.00	.3000-01	.2480-01	.3000-01	.7340-03	.6063-03	.7340-03	.4420	3.287	539.1
402	85.000	.97500	976.00	.5000-03	.4000-03	.5000-03	.1276-04	.1057-04	.1276-04	.8000-02	.5800-01	532.1
403	105.00	.40100	135.00	.2360-01	.1950-01	.2360-01	.5774-03	.4360-03	.5774-03	.3490	2.705	536.3
403	105.00	.50100	136.00	.2650-01	.2100-01	.2650-01	.6487-03	.5360-03	.6487-03	.3910	3.120	538.3
403	105.00	.60100	137.00	.1370-01	.1130-01	.1370-01	.3340-03	.2760-03	.3340-03	.2020	1.610	537.3
403	105.00	.70100	138.00	.6900-02	.5600-02	.6900-02	.1659-03	.1372-03	.1659-03	.1000+00	.8040	535.2
403	105.00	.80000	139.00	.5000-03	.4000-03	.5000-03	.1159-04	.9588-05	.1159-04	.7000-02	.5600-01	532.5
403	113.00	.60100	146.00	.2340-01	.1940-01	.2340-01	.5728-03	.4734-03	.5728-03	.3460	2.763	537.0
403	116.00	.75100	147.00	.1880-01	.1560-01	.1880-01	.4610-03	.3810-03	.4610-03	.2780	2.223	537.1
403	120.00	.10000+00	132.00	.1110-01	.9100-02	.1110-01	.2707-03	.2238-03	.2707-03	.7300-01	.5810	533.4
403	120.00	.80500	247.00	.8000-02	.6500-02	.8000-02	.1947-03	.1612-03	.1947-03	.1630	.9880	536.9
403	120.00	.82900	248.00	.9700-02	.8000-02	.9700-02	.2374-03	.1965-03	.2374-03	.1180	.9790	532.5
403	120.00	.86200	249.00	.1140-01	.9500-02	.1140-01	.2796-03	.2314-03	.2796-03	.1440	1.194	532.6
403	130.00	.80500	253.00	.9900-02	.8200-02	.9900-02	.2416-03	.2000-03	.2416-03	.1700	1.247	532.0
403	130.00	.82900	254.00	.1880-01	.1560-01	.1880-01	.4609-03	.3813-03	.4609-03	.1470	1.178	532.3
403	130.00	.86200	255.00	.1900-01	.1570-01	.1900-01	.4641-03	.3840-03	.4641-03	.2800	2.176	532.9
403	130.00									.2820	2.333	532.7

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

## AEDC VKF V418-57A (OH-49B) COLLATION DECK

## OH-49B (AEDC V418-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF P=1.0	H/HREF (TAW)	H(ISTO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
403	135.00	.40100	142.00	.1500-02	.1300-02	.1500-02	.3730-04	.3087-04	.3730-04	.2300-01	.1760	532.8
403	135.00	.50100	143.00	.2100-02	.1700-02	.2100-02	.5159-04	.4268-04	.5159-04	.3100-01	.2590	533.6
403	135.00	.60100	144.00	.5900-02	.4800-02	.5900-02	.1432-03	.1184-03	.1432-03	.8700-01	.6740	533.9
403	135.00	.70100	145.00	.2700-02	.2200-02	.2700-02	.6589-04	.5452-04	.6589-04	.4000-01	.3210	532.8
403	140.00	.18000	85.000	.8300-02	.6900-02	.8300-02	.2029-03	.1677-03	.2029-03	.1230	.9450	536.9
403	140.00	.19500	87.000	.6700-02	.5600-02	.6700-02	.1642-03	.1358-03	.1642-03	.9900-01	.7680	534.9
403	145.00	.80500	259.00	.7500-02	.6300-02	.7500-02	.1852-03	.1541-03	.1852-03	.1130	.8910	531.7
404	145.00	.86200	261.00	.3500-02	.2900-02	.3500-02	.8639-04	.7150-04	.8639-04	.5300-01	.4350	530.6
403	150.00	.16000	86.000	.6700-02	.5500-02	.6700-02	.1635-03	.1352-03	.1635-03	.9900-01	.7380	535.5
403	150.00	.18000	84.000	.5600-02	.4600-02	.5600-02	.2342-03	.1937-03	.2342-03	.1420	1.058	535.0
403	155.00	.16000	83.000	.2000-03	.2000-03	.2000-03	.5768-05	.4774-05	.5768-05	.4000-02	.2600-01	532.0
403	155.00	.19000	82.000	.8300-02	.6900-02	.8300-02	.2033-03	.1681-03	.2033-03	.1230	.9180	535.6
403	160.00	.18000	77.000	.1000-03	.1000-03	.1000-03	.2615-05	.2165-05	.2615-05	.2000-02	.1200-01	531.7
403	160.00	.18000	77.000	.2340-01	.1930-01	.2340-01	.5716-03	.4724-03	.5716-03	.3450	2.754	537.2
403	175.00	.15000	81.000	.2290-01	.1890-01	.2290-01	.5601-03	.4628-03	.5601-03	.3380	2.440	536.7
403	175.00	.16500	79.000	.1910-01	.1580-01	.1910-01	.4678-03	.3857-03	.4678-03	.2830	2.108	536.3
403	175.00	.17500	78.000	.3900-01	.3220-01	.3900-01	.9533-03	.7878-03	.9533-03	.5750	4.146	537.5
402	180.00	.10000-01	59.000	.1823	.1501	.1823	.4464-02	.3677-02	.4464-02	2.648	19.60	550.3
402	180.00	.25000-01	60.000	.5320-01	.4390-01	.5320-01	.1303-02	.1075-02	.1303-02	.7830	5.630	542.5
402	180.00	.50000-01	61.000	.2330-01	.1930-01	.2330-01	.5709-03	.4717-03	.5709-03	.3450	2.199	539.6
402	180.00	.75000-01	62.000	.1220-01	.1010-01	.1220-01	.2980-03	.2463-03	.2980-03	.1800	1.151	538.2
402	180.00	.10000+00	63.000	.9200-02	.7600-02	.9200-02	.2261-03	.1869-03	.2261-03	.1370	.9000	537.8
402	180.00	.12500	64.000	.9800-02	.8100-02	.9800-02	.2391-03	.1977-03	.2391-03	.1450	1.014	536.8
402	180.00	.15000	65.000	.1210-01	.1000-01	.1210-01	.2954-03	.2443-03	.2954-03	.1790	1.254	536.2
402	180.00	.16000	66.000	.3930-01	.3250-01	.3930-01	.9635-03	.7963-03	.9635-03	.5830	3.256	538.4
402	180.00	.17000	67.000	.7670-01	.6340-01	.7670-01	.1879-02	.1552-02	.1879-02	1.133	6.321	540.6
402	180.00	.20000	69.000	.1570-01	.1300-01	.1570-01	.3856-03	.3190-03	.3856-03	.2350	1.458	535.2
402	180.00	.40100	72.000	.5800-02	.4800-02	.5800-02	.1418-03	.1173-03	.1418-03	.8500-01	.7380	534.1
402	180.00	.50000	73.000	.7200-02	.6000-02	.7200-02	.1770-03	.1464-03	.1770-03	.1080	.9200	534.5
402	180.00	.60100	74.000	.7200-02	.5900-02	.7200-02	.1758-03	.1454-03	.1758-03	.1070	.8840	534.3
402	180.00	.70100	75.000	.7300-02	.6000-02	.7300-02	.1789-03	.1481-03	.1789-03	.1090	.8730	533.8

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1841)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = -7.000 SPDRBK = 40.00  
BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
411	7.980	1.985	30.03	.0000	180.0	428.7	.4500-01	1296.	94.30	1.989	3798.	.3969-04
412	7.980	1.997	30.03	.0000	180.0	431.9	.4500-01	1297.	94.40	2.004	3799.	.3996-04
413	7.980	1.981	30.07	.0000	180.0	430.0	.4500-01	1300.	94.60	1.995	3804.	.3969-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
411	.7595-07	.3462-01	.0175	0.0175
412	.7601-07	.3475-01	.2883-01	.2883-01
413	.7619-07	.3469-01	.2894-01	.2894-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1GTO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
411	.00000	.00000	1.0000	.7725	.6274	.6604	.2674-01	.2172-01	.2288-01	14.98	80.91	606.0
411	.00000	.50000-02	2.0000	.7503	.6077	.6113	.2597-01	.2104-01	.2116-01	14.34	96.42	614.1
411	.00000	.10000-01	3.0000	.6054	.4928	.5099	.2096-01	.1706-01	.1765-01	11.88	78.05	599.3
411	.00000	.20000-01	4.0000	.3826	.7142	.3378	.1324-01	.1088-01	.1169-01	7.889	43.36	570.6
411	.00000	.30000-01	5.0000	.2873	.2364	.2592	.9947-02	.8185-02	.8974-02	5.988	33.01	564.3
411	.00000	.40000-01	6.0000	.2438	.2009	.2230	.8440-02	.6954-02	.7723-02	5.117	28.27	559.9
411	.00000	.50000-01	7.0000	.2450	.2014	.2262	.8482-02	.6971-02	.7830-02	5.072	33.82	568.3
411	.00000	.60000-01	8.0000	.2262	.1861	.2104	.7829-02	.6443-02	.7285-02	4.715	29.71	564.0
411	.00000	.70000-01	9.0000	.1951	.1605	.1828	.6754-02	.5555-02	.6329-02	4.055	27.92	565.9
411	.00000	.80000-01	10.0000	.1530	.1260	.1443	.5296-02	.4363-02	.4996-02	3.204	22.12	561.4
411	.00000	.90000-01	11.0000	.1463	.1206	.1385	.5065-02	.4176-02	.4796-02	3.085	19.51	557.1
411	.00000	.10000+00	12.0000	.1327	.1095	.1262	.4595-02	.3789-02	.4369-02	2.801	16.76	556.7
411	.00000	.12000	14.0000	.1168	.9640-01	.1117	.4044-02	.3338-02	.3867-02	2.476	13.73	553.9
411	.00000	.13000	15.0000	.1095	.9040-01	.1049	.3791-02	.3128-02	.3631-02	2.319	13.52	554.5
411	.00000	.14000	16.0000	.1040	.8580-01	.9970-01	.3601-02	.2971-02	.3453-02	2.201	13.93	554.9
411	.00000	.15000	18.0000	.1115	.9200-01	.1072	.3862-02	.3166-02	.3711-02	2.357	14.50	555.8
411	.00000	.17000	19.0000	.1080	.8910-01	.1039	.3738-02	.3083-02	.3597-02	2.279	14.41	556.6



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/R FT/SEC	H(1TO) BTU/R FT/SEC	H(TAW) BTU/R FT/SEC	QDOT BTU/ FT/SEC	DTWDT DEG. R /SEC	TW DEG. R
411	.00000	.18000	20.000	.1048	.8640-01	.1009	.3629-02	.2933-02	.3495-02	2.212	13.99	556.8
411	.00000	.19000	21.000	.9880-01	.8160-01	.9530-01	.3422-02	.2824-02	.3300-02	2.095	13.28	553.6
411	.00000	.20000	22.000	.1003	.8270-01	.9680-01	.3472-02	.2864-02	.3353-02	2.120	13.41	553.8
411	.00000	.22500	23.000	.9270-01	.7650-01	.8980-01	.3209-02	.2649-02	.3107-02	1.964	12.44	554.3
411	.00000	.25000	801.00	.8860-01	.7310-01	.8990-01	.3657-02	.2531-02	.2975-02	1.877	11.89	554.2
411	.00000	.30000	802.00	.8100-01	.6690-01	.7860-01	.2806-02	.2315-02	.2721-02	1.716	10.86	554.8
411	.00000	.35000	803.00	.8400-01	.6920-01	.8150-01	.2908-02	.2397-02	.2820-02	1.770	11.19	557.5
411	.00000	.40000	804.00	.8160-01	.6720-01	.7910-01	.2824-02	.2328-02	.2739-02	1.718	11.17	558.0
411	.00000	.45000	805.00	.7320-01	.6030-01	.7100-01	.2533-02	.2087-02	.2457-02	1.537	10.30	559.4
411	.00000	.50000	806.00	.6810-01	.5610-01	.6600-01	.2358-02	.1942-02	.2286-02	1.429	9.872	559.9
411	.00000	.55000	807.00	.6570-01	.5410-01	.6370-01	.2275-02	.1873-02	.2206-02	1.374	10.11	562.2
411	.00000	.60000	808.00	.6040-01	.4980-01	.5860-01	.2093-02	.1723-02	.2029-02	1.264	9.301	562.2
411	.00000	.65000	809.00	.5570-01	.4580-01	.5400-01	.1927-02	.1586-02	.1868-02	1.160	8.527	564.2
411	.00000	.70000	810.00	.5440-01	.4480-01	.5270-01	.1883-02	.1500-02	.1826-02	1.133	8.616	564.3
411	.00000	.75000	811.00	.5350-01	.4410-01	.5200-01	.1857-02	.1528-02	.1800-02	1.118	8.218	564.1
411	.00000	.80000	812.00	.6090-01	.5010-01	.5000-01	.2107-02	.1734-02	.2042-02	1.269	9.326	562.9
411	.00000	.85000	813.00	.6060-01	.4990-01	.5940-01	.2097-02	.1726-02	.2056-02	1.265	9.629	562.9
411	.00000	.90000	814.00	.5850-01	.4820-01	.4750-01	.2025-02	.1669-02	.1990-02	1.229	8.765	559.2
411	.00000	.92500	815.00	.4850-01	.4000-01	.4780-01	.1679-02	.1385-02	.1655-02	1.023	8.386	557.1
411	.00000	.95000	816.00	.4620-01	.3910-01	.4560-01	.1599-02	.1318-02	.1580-02	.9720	7.964	558.3
411	.00000	.97500	817.00	.3180-01	.2620-01	.3150-01	.1100-02	.9065-03	.1089-02	.6690	5.462	557.8
411	.00000	1.0150	818.00	.1264	.1036	.1256	.4377-02	.3586-02	.4347-02	2.572	18.77	578.5
411	.00000	1.0300	819.00	.3148	.2568	.3126	.1090-01	.8891-02	.1082-01	6.260	45.39	591.7
411	.00000	1.0500	821.00	.2999	.2440	.2978	.1038-01	.8447-02	.1031-01	5.867	47.94	601.2
411	.00000	1.5000	89.000	.9600-02	.7900-02	.9600-02	.3307-03	.2740-03	.3307-03	2.070	1.250	539.8
411	.00000	91.000	91.000	.1670-01	.1380-01	.1670-01	.5771-03	.4784-03	.5771-03	.3620	2.248	538.4
411	.00000	.50000-01	90.000	.1400-02	.1200-02	.1400-02	.4829-04	.4003-04	.4829-04	.3000-01	.1830	537.9
411	.00000	.40000	823.00	.8110-01	.6670-01	.7860-01	.2807-02	.2310-02	.2722-02	1.691	13.32	563.9
411	.00000	.50000	824.00	.7600-01	.6250-01	.7360-01	.2630-02	.2163-02	.2549-02	1.578	12.42	566.0
411	.00000	.60000	825.00	.5190-01	.4270-01	.5030-01	.1797-02	.1478-02	.1742-02	1.079	9.513	565.5
411	.00000	.70000	826.00	.6240-01	.5130-01	.6050-01	.2162-02	.1777-02	.2095-02	1.295	9.506	567.1
411	.00000	.80000	827.00	.6230-01	.5120-01	.6040-01	.2156-02	.1774-02	.2090-02	1.298	9.543	564.1
411	.00000	.90000	828.00	.5180-01	.4270-01	.5090-01	.1753-02	.1478-02	.1762-02	1.088	8.593	559.3
412	.00000	1.0000+00	103.00	.1984	.1636	.1984	.6896-02	.5687-02	.6896-02	4.206	24.50	557.2
412	.00000	104.00	104.00	.1232	.1017	.1232	.4282-02	.3536-02	.4282-02	2.630	16.67	552.9
411	.00000	.92500	971.00	.5760-01	.4750-01	.5760-01	.1933-02	.1643-02	.1993-02	1.211	8.929	558.6
411	.00000	.95000	975.00	.5900-01	.4870-01	.5900-01	.2043-02	.1687-02	.2043-02	1.255	9.281	551.9
411	.00000	.97500	980.00	.6700-01	.5530-01	.6700-01	.2318-02	.1914-02	.2318-02	1.423	10.52	552.5
412	.00000	.50000-01	105.00	.2348	.1938	.2348	.8160-02	.6734-02	.8160-02	4.997	27.68	554.7
411	.00000	.20000	93.000	.1180-01	.9800-02	.1180-01	.4073-03	.3377-03	.4073-03	.2560	1.589	538.0
412	.24.000	.10000+00	106.00	.2200	.1813	.2200	.7647-02	.6301-02	.7647-02	4.640	29.30	560.3
412	.25.500	.15000	107.00	.1387	.1143	.1387	.4821-02	.3971-02	.4821-02	2.923	25.83	560.8
411	.30.000	.92500	970.00	.5330-01	.4400-01	.5330-01	.1846-02	.1523-02	.1846-02	1.127	8.322	555.6

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1841)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R F12SEC	H(1TO) BTU/ R F12SEC	H(TAN) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWOT DEG. R /SEC	TH DEG. R
411	30.00	.95000	974.00	.3620-01	.2990-01	.3620-01	.1254-02	.1037-02	.1254-02	.7760	5.750	547.6
411	30.00	.97500	979.00	.3570-01	.2950-01	.3570-01	.1235-02	.1021-02	.1235-02	.7620	5.648	548.9
412	31.50	.20000	108.00	.9460-01	.7800-01	.9460-01	.3288-02	.2712-02	.3288-02	2.005	20.17	557.4
411	32.00	.40000	831.00	.1067	.8790-01	.1035	.3694-02	.3042-02	.3694-02	2.233	15.40	561.8
411	32.00	.50000	832.00	.8910-01	.7330-01	.8640-01	.3085-02	.2537-02	.3085-02	1.852	13.16	566.1
411	32.00	.60000	833.00	.7650-01	.6290-01	.7410-01	.2647-02	.2176-02	.2647-02	1.585	10.58	567.3
411	32.00	.70000	834.00	.6230-01	.5120-01	.6040-01	.2156-02	.1772-02	.2090-02	1.286	9.756	569.7
411	32.00	.80000	835.00	.5720-01	.4710-01	.5550-01	.1981-02	.1630-02	.1920-02	1.194	8.496	563.5
411	32.00	.90000	835.00	.5440-01	.4480-01	.5340-01	.1882-02	.1552-02	.1850-02	1.144	8.438	558.2
411	32.00	.95000	837.00	.6840-01	.5640-01	.6760-01	.2368-02	.1952-02	.2340-02	1.441	10.99	557.8
411	32.00	.97500	833.00	.5710-01	.4710-01	.5650-01	.1976-02	.1630-02	.1958-02	1.204	9.522	556.8
411	32.00	1.0150	839.00	.1338	.1134	.1322	.4804-02	.3927-02	.4578-02	2.787	22.11	585.0
411	32.00	1.0300	840.00	.2899	.2351	.2760	.1004-01	.8175-02	.9554-02	5.712	43.48	597.1
411	32.00	1.0450	841.00	.3490	.2838	.3321	.1208-01	.9825-02	.1150-01	6.810	50.81	602.6
412	35.00	.50000-01	115.00	.1401	.1158	.1401	.4870-02	.4024-02	.4870-02	3.004	19.06	550.4
412	35.00	.20000	110.00	.1018	.8380-01	.1018	.3537-02	.2913-02	.3537-02	2.142	21.50	561.6
412	39.00	.10000+00	116.00	.1096	.9060-01	.1096	.3809-02	.3147-02	.3809-02	2.350	14.91	550.1
412	40.00	.76000-01	121.00	.7790-01	.6440-01	.7790-01	.2707-02	.2239-02	.2707-02	1.682	10.70	545.7
412	40.00	.15000	111.00	.1756	.1445	.1756	.6103-02	.5023-02	.6103-02	3.681	27.06	564.0
412	40.00	.20000	112.00	.1013	.8340-01	.1013	.3519-02	.2898-02	.3519-02	2.127	23.47	562.7
412	42.50	.50000-01	127.00	.1009	.8340-01	.1009	.3505-02	.2898-02	.3505-02	2.168	14.60	548.6
412	45.00	.92500	993.00	.9150-01	.7570-01	.9150-01	.3180-02	.2629-02	.3180-02	1.957	11.51	548.5
411	45.00	.95000	973.00	.4000-03	.4000-03	.4000-03	.1465-04	.1215-04	.1465-04	.9000-02	1.147	536.0
411	45.00	.97500	978.00	.1100-02	.9000-03	.1100-02	.3713-04	.3091-04	.3713-04	.2300-01	1.750	534.7
412	51.00	.20000	118.00	.4740-01	.3920-01	.4740-01	.1646-02	.1362-02	.1646-02	1.025	6.321	544.6
412	60.00	.50000-01	131.00	.3770-01	.3120-01	.3770-01	.1309-02	.1094-02	.1309-02	.8200	5.544	540.8
412	67.50	.20000	128.00	.2990-01	.2480-01	.2990-01	.1039-02	.8603-03	.1039-02	.6480	4.818	543.1
411	75.00	.97500	977.00	.7000-03	.6000-03	.7000-03	.2540-04	.2108-04	.2540-04	.1600-01	1.200	534.8
411	85.00	.97500	976.00	.9000-03	.7000-03	.9000-03	.2968-04	.2462-04	.2968-04	.1900-01	3.502	534.9
412	105.00	.40100	135.00	.2080-01	.1730-01	.2080-01	.7246-03	.6002-03	.7246-03	.4530	5.566	544.6
412	105.00	.50100	136.00	.3240-01	.2680-01	.3240-01	.1124-02	.9305-03	.1124-02	.7000	3.284	543.6
412	105.00	.60100	137.00	.1900-01	.1580-01	.1900-01	.6618-03	.5479-03	.6618-03	.4130	1.433	540.2
412	105.00	.70100	138.00	.8300-02	.6800-02	.8300-02	.2867-03	.2376-03	.2867-03	.1800	1.510	536.6
412	105.00	.80000	139.00	.9000-03	.7000-03	.9000-03	.2993-04	.2482-04	.2993-04	.1900-01	6.229	544.3
412	113.00	.60100	146.00	.3620-01	.2930-01	.3620-01	.1053-02	.8716-03	.1053-02	.7830	5.218	544.2
412	116.00	.75100	147.00	.3030-01	.2510-01	.3030-01	.1053-02	.8716-03	.1053-02	.6560	1.469	538.4
412	116.00	.8400-02	146.00	.8400-02	.7000-02	.8400-02	.2927-03	.2427-03	.2927-03	.1840	1.325	539.0
412	120.00	.10000+00	132.00	.1010-01	.8300-02	.1010-01	.3495-03	.2897-03	.3495-03	.2200	2.685	538.0
412	120.00	.80500	247.00	.1490-01	.1240-01	.1490-01	.5177-03	.4293-03	.5177-03	.3260	3.802	538.5
412	120.00	.82900	248.00	.2110-01	.1750-01	.2110-01	.7341-03	.6086-03	.7341-03	.4620	3.802	538.5
412	120.00	.86200	249.00	.1600-01	.1330-01	.1600-01	.5560-03	.4613-03	.5560-03	.3510	2.566	535.9
412	130.00	.80500	253.00	.1880-01	.1560-01	.1880-01	.6532-03	.5415-03	.6532-03	.4110	3.281	538.1

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B41)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9T) BTU/R FT2SEC	H(10) BTU/R FT2SEC	H(TAN) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
412	130.00	.82900	254.00	.5090-01	.4220-01	.5090-01	.1771-02	.1467-02	.1771-02	1.108	8.562	541.3
412	130.00	.86200	255.00	.2970-01	.2460-01	.2970-01	.1032-02	.8557-03	.1032-02	.6490	5.350	538.1
412	135.00	.40100	142.00	.1400-02	.1100-02	.1400-02	.4804-04	.3983-04	.1032-02	.3000-01	.2350	536.3
412	135.00	.50100	143.00	.1600-02	.1300-02	.1600-02	.5561-04	.4611-04	.4804-04	.3500-01	.2890	537.3
412	135.00	.60100	144.00	.3600-02	.3000-02	.3600-02	.1262-03	.1047-03	.1262-03	.7900-01	.6150	538.0
412	135.00	.70100	145.00	.3300-02	.2700-02	.3300-02	.1150-03	.9535-04	.1262-03	.7200-01	.5790	536.9
412	140.00	.18000	85.000	.7500-02	.6200-02	.7500-02	.2594-03	.2149-03	.2594-03	.1630	1.252	540.1
412	140.00	.19500	87.000	.8900-02	.7400-02	.8900-02	.3105-03	.2574-03	.3105-03	.1950	1.503	538.9
412	145.00	.80500	259.00	.1200-01	.9900-02	.1200-01	.4166-03	.3456-03	.4166-03	.2630	2.039	535.9
413	145.00	.82900	260.00	.1700-01	.1410-01	.1700-01	.5985-03	.4864-03	.5985-03	.3730	2.808	535.9
413	145.00	.86200	261.00	.5500-02	.4600-02	.5500-02	.1912-03	.1587-03	.1912-03	.1220	1.005	533.5
412	150.00	.16000	86.000	.7100-02	.5900-02	.7100-02	.2454-03	.2034-03	.2454-03	.1540	1.148	539.0
412	150.00	.18000	84.000	.1250-01	.8800-02	.1060-01	.3658-03	.3065-03	.3658-03	.2320	1.729	539.1
412	150.00	.19000	82.000	.3000-03	.3000-03	.3000-03	.1065-04	.8838-05	.1065-04	.7000-02	5.000-01	533.6
412	155.00	.16000	80.000	.9900-02	.8200-02	.9900-02	.3446-03	.2856-03	.3446-03	.2160	1.610	539.5
412	155.00	.18000	83.000	.3000-03	.2000-03	.3000-03	.9154-05	.7599-05	.9154-05	.6000-02	4.300-01	533.3
412	160.00	.18000	77.000	.2490-01	.2060-01	.2490-01	.8666-03	.7176-03	.8666-03	.5410	4.309	542.6
412	175.00	.15000	81.000	.3330-01	.2760-01	.3330-01	.1159-02	.9595-03	.1159-02	.7240	5.203	542.7
412	175.00	.16500	79.000	.2030-01	.1740-01	.2030-01	.7280-03	.6030-03	.7280-03	.4560	3.388	541.3
412	175.00	.17500	78.000	.5160-01	.4270-01	.5160-01	.1795-02	.1485-02	.1795-02	1.117	8.021	544.9
411	180.00	.10000-01	59.000	.1795	.1480	.1796	.6217-02	.5123-02	.6217-02	3.774	27.82	559.1
411	180.00	.25000-01	60.000	.5090-01	.4210-01	.5090-01	.1762-02	.1457-02	.1762-02	1.091	7.824	547.3
411	180.00	.50000-01	61.000	.2150-01	.1780-01	.2150-01	.7459-03	.6174-03	.7459-03	.4650	2.959	543.3
411	180.00	.75000-01	62.000	.1160-01	.9600-02	.1160-01	.4032-03	.3340-03	.4032-03	.2520	1.605	541.6
411	180.00	.10000+03	63.000	.9100-02	.7500-02	.9100-02	.3152-03	.2611-03	.3152-03	.1970	1.294	540.9
411	180.00	.12500	64.000	.1070-01	.8900-02	.1070-01	.3708-03	.3072-03	.3708-03	.2320	1.617	540.8
411	180.00	.15000	65.000	.1910-01	.1590-01	.1910-01	.6624-03	.5487-03	.6624-03	.4140	2.890	540.7
411	180.00	.16000	66.000	.5770-01	.4780-01	.5770-01	.1993-02	.1653-02	.1993-02	1.239	6.895	546.2
411	180.00	.17000	67.000	.8820-01	.7300-01	.8820-01	.3055-02	.2527-02	.3055-02	1.893	10.53	546.7
411	180.00	.20000	69.000	.1500-01	.1240-01	.1500-01	.5196-03	.4306-03	.5196-03	.3260	2.024	538.5
411	180.00	.40100	72.000	.9100-02	.7600-02	.9100-02	.3160-03	.2620-03	.3160-03	.1990	1.692	537.8
411	180.00	.50000	73.000	.8700-02	.7200-02	.8700-02	.3028-03	.2510-03	.3028-03	.1900	1.620	537.9
411	180.00	.60100	74.000	.6100-02	.5100-02	.6100-02	.2112-03	.1751-03	.2112-03	.1330	1.095	537.3
411	180.00	.70100	75.000	.7500-02	.6200-02	.7500-02	.2580-03	.2140-03	.2580-03	.1620	1.299	536.4

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AEDC VKF V418-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V418-57A) ORBITER FUSELAGE

(RV1841)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = -7.000 SPDBRK = 40.00  
 ROLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
420	8.000	3.778	30.07	.0000	180.0	860.7	.3800-01	1337.	96.90	3.950	3858.	.7636-04
421	8.000	3.745	30.01	.0000	180.0	858.6	.3800-01	1342.	97.30	3.940	3865.	.7586-04
422	8.000	3.718	30.06	.0000	180.0	858.4	.3800-01	1349.	97.70	3.939	3875.	.7549-04

RUN NUMBER	MU	HREF BTU/ R F12SEC	ST FR R =
420	.7799-07	.4905-01	0.0175
421	.7831-07	.4902-01	.2100-01
422	.7868-07	.4906-01	.2106-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	I/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(JTO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(TAW) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWOT DEG. R /SEC	TW DEG. R
420	.00000	.00000	1.0000	.7672	.6219	.6550	.3763-01	.3050-01	.3213-01	21.54	114.9	630.6
420	.00000	.50000-02	2.0000	.7513	.6065	.6101	.3685 01	.2975-01	.2992-01	20.64	136.8	643.0
420	.00000	.10000-01	3.0000	.6186	.5028	.5203	.3034 01	.2466-01	.2552-01	17.60	114.2	623.1
420	.00000	.20000-01	4.0000	.3962	.3258	.3501	.943-01	.1588-01	.1717-01	12.02	65.62	584.4
420	.00000	.30000-01	5.0000	.2930	.2416	.2646	.1437-01	.1185-01	.1298-01	9.021	49.46	575.3
420	.00000	.40000-01	6.0000	.2493	.2058	.2283	.223-01	.1009-01	.1120-01	7.740	42.55	570.0
420	.00000	.50000-01	7.0000	.2260	.1860	.2087	.109-01	.9123-02	.1024-01	6.891	45.65	581.5
420	.00000	.60000-01	8.0000	.2238	.1845	.2083	.098-01	.9048-02	.1022-01	6.882	43.11	576.1
420	.00000	.70000-01	9.0000	.1923	.1584	.1803	.9431-02	.7767-02	.8841-02	5.886	40.26	579.3
420	.00000	.80000-01	10.000	.1542	.1273	.1455	.7665-02	.6242-02	.7136-02	4.771	32.74	572.4
420	.00000	.90000-01	11.000	.1445	.1194	.1369	.7085-02	.5855-02	.6713-02	4.509	28.37	566.7
420	.00000	.10000+00	12.000	.1343	.1110	.1277	.6586-02	.5444-02	.6265-02	4.194	24.97	566.3
420	.00000	.12000	14.000	.1176	.9730-01	.1125	.5768-02	.4774-02	.5517-02	3.703	20.45	561.1
420	.00000	.13000	15.000	.1117	.9250-01	.1071	.5481-02	.4535-02	.5251-02	3.514	20.41	562.0
420	.00000	.14000	16.000	.1033	.8540-01	.9910-01	.5065-02	.4190-02	.4859-02	3.244	20.46	562.6
420	.00000	.16000	18.000	.1050	.8680-01	.1009	.5150-02	.4259-02	.4951-02	3.289	20.14	564.5
420	.00000	.17000	19.000	.1052	.8700-01	.1013	.5161-02	.4266-02	.4967-02	3.291	20.72	565.4

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1841)

RUN NUMBER	THETA	X/L	I/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(910) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	QDOT DEG. R /SEC	TW DEG. R
420	.00000	.18000	20.000	.1020	.8430-01	.9850-01	.5000-02	.4133-02	.4817-02	3.186	20.06	566.0
420	.00000	.19000	21.000	.9990-01	.8270-01	.9640-01	.4900-02	.4054-02	.4727-02	3.138	19.79	562.6
420	.00000	.20000	22.000	.9920-01	.8200-01	.9560-01	.4866-02	.4023-02	.4700-02	3.104	19.55	565.2
420	.00000	.22500	23.000	.9410-01	.7730-01	.9110-01	.4615-02	.3817-02	.4469-02	2.952	18.61	563.3
420	.00000	.25000	801.00	.9120-01	.7540-01	.8850-01	.4472-02	.3658-02	.4338-02	2.859	18.02	563.7
420	.00000	.30000	802.00	.6270-01	.6840-01	.8020-01	.4055-02	.3354-02	.3935-02	2.591	16.32	564.3
420	.00000	.35000	803.00	.8500-01	.7020-01	.8250-01	.4170-02	.3444-02	.4044-02	2.646	16.63	568.6
420	.00000	.40000	804.00	.8600-01	.7100-01	.8340-01	.4218-02	.3484-02	.4091-02	2.676	17.32	568.7
420	.00000	.45000	805.00	.8100-01	.6630-01	.7860-01	.3973-02	.3280-02	.3853-02	2.513	16.74	570.5
420	.00000	.50000	806.00	.7510-01	.6190-01	.7280-01	.3633-02	.3038-02	.3571-02	2.321	15.93	572.8
420	.00000	.55000	807.00	.7540-01	.6210-01	.7310-01	.3657-02	.3048-02	.3595-02	2.321	16.97	575.1
420	.00000	.60000	808.00	.7630-01	.6480-01	.7620-01	.3855-02	.3178-02	.3739-02	2.418	17.67	575.8
420	.00000	.65000	809.00	.1021	.8400-01	.9890-01	.5005-02	.4120-02	.4853-02	3.110	22.66	582.0
420	.00000	.70000	810.00	.1137	.1137	.1341	.6788-02	.5576-02	.6578-02	4.176	31.39	587.8
420	.00000	.75000	811.00	.1938	.1507	.1781	.9014-02	.7394-02	.8733-02	5.497	39.83	593.3
420	.00000	.80000	812.00	.2277	.1855	.2205	.1117-01	.9147-02	.1082-01	6.752	48.80	598.6
420	.00000	.85000	813.00	.2342	.1917	.2294	.1149-01	.9401-02	.1125-01	6.917	51.66	600.9
420	.00000	.90000	814.00	.2247	.1842	.2205	.1102-01	.9034-02	.1082-01	6.703	46.97	594.8
420	.00000	.92500	815.00	.1880	.1543	.1851	.9219-02	.7570-02	.9079-02	5.658	45.64	583.4
420	.00000	.95000	816.00	.1874	.1537	.1850	.9192-02	.7537-02	.9076-02	5.595	45.02	594.4
420	.00000	.97500	817.00	.1988	.1627	.1968	.9749-02	.7979-02	.9650-02	5.876	47.14	600.3
420	.00000	1.0150	818.00	.3538	.2868	.3512	.1735-01	.1407-01	.1723-01	9.924	70.59	631.2
420	.00000	1.0300	819.00	.3645	.2959	.3623	.1790-01	.1451-01	.1777-01	10.26	73.01	629.9
420	.00000	1.0500	821.00	.2942	.2378	.2920	.1443-01	.1167-01	.1432-01	8.144	65.34	638.6
420	.00000	1.0600	89.000	.6500-02	.5400-02	.6500-02	.3165-03	.2633-03	.3165-03	2.090	1.261	541.8
420	.00000	1.0700	91.000	.2410-01	.2000-01	.2410-01	.1182-02	.9830-03	.1182-02	.7810	4.835	542.6
420	.00000	1.0800	90.000	.6100-02	.5100-02	.6100-02	.3005-03	.2500-03	.3005-03	1.990	1.201	540.5
420	.00000	1.0900	823.00	.6530-01	.7150-01	.8423-01	.4257-02	.3508-02	.4127-02	2.665	20.86	577.0
420	.00000	1.1000	824.00	.8230-01	.6770-01	.7973-01	.4034-02	.3321-02	.3911-02	2.513	19.63	580.2
420	.00000	1.1100	825.00	.6430-01	.5340-01	.6293-01	.3182-02	.2619-02	.3085-02	1.980	17.32	580.9
420	.00000	1.1200	826.00	.1125	.9240-01	.1090	.5517-02	.4533-02	.5347-02	3.398	24.70	587.1
420	.00000	1.1300	827.00	.1880	.1541	.1821	.9218-02	.7558-02	.8330-02	5.609	40.62	594.6
420	.00000	1.1400	828.00	.1854	.1521	.1821	.9095-02	.7459-02	.8932-02	5.540	43.00	594.0
420	.00000	1.1500	103.00	.2044	.1692	.2044	.1002-01	.8295-02	.1002-01	6.467	37.56	562.8
420	.00000	1.1600	104.00	.1244	.1031	.1244	.6033-02	.5056-02	.6098-02	3.971	25.11	556.9
420	.00000	1.1700	971.00	.1236	.1017	.1236	.6062-02	.4986-02	.6062-02	3.754	27.33	583.8
420	.00000	1.1800	975.00	.1131	.9330-01	.1131	.5549-02	.4578-02	.5549-02	3.495	25.58	573.2
420	.00000	1.1900	980.00	.1147	.9470-01	.1147	.5627-02	.4644-02	.5627-02	3.555	26.04	571.4
420	.00000	1.2000	105.00	.2342	.1940	.2342	.1148-01	.9510-02	.1148-01	7.441	41.12	559.8
420	.00000	1.2100	93.000	.1340-01	.1120-01	.1343-01	.6590-03	.5482-03	.6590-03	4.360	2.702	541.5
420	.00000	1.2200	106.00	.1839	.1839	.2223	.1090-01	.9008-02	.1090-01	6.978	43.89	567.7
420	.00000	1.2300	107.00	.1418	.1172	.1418	.6949-02	.5743-02	.6949-02	4.441	39.08	569.0
420	.00000	1.2400	970.00	.1114	.9180-01	.1114	.5463-02	.4504-02	.5463-02	3.432	25.09	574.9

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## AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(OTO) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTAOT DEG. R /SEC	TW DEG. R
420	30.000	95000	974.00	7980-01	6600-01	7980-01	3913-02	3913-02	2.497	18.35	564.8
420	30.000	97500	979.00	8240-01	6810-01	8240-01	4042-02	4042-02	2.574	18.90	566.3
421	31.500	20000	108.00	9370-01	7750-01	9370-01	4594-02	4594-02	2.956	29.62	564.7
420	32.000	40000	831.00	1039	8570-01	1007	5094-02	4202-02	3.209	22.01	573.2
420	32.000	50000	832.00	9000-01	7410-01	8720-01	4412-02	3633-02	2.751	19.42	579.6
420	32.000	60000	833.00	8590-01	7070-01	8330-01	4214-02	3467-02	2.614	17.31	582.8
420	32.000	70000	834.00	9510-01	7810-01	9220-01	4665-02	3833-02	2.872	21.59	587.5
420	32.000	80000	835.00	1198	9830-01	1161	5976-02	4830-02	3.628	25.54	585.6
420	32.000	90000	835.00	1520	1250	1493	7454-02	6129-02	4.609	33.54	594.7
420	32.000	95000	837.00	1672	1375	1651	8199-02	6745-02	5.083	38.29	593.2
420	32.000	97500	839.00	1722	1414	1705	8445-02	6934-02	5.180	40.29	599.7
420	32.000	1.0150	839.00	3865	3111	3667	1895-01	1526-01	10.45	80.31	651.6
420	32.000	1.0300	840.00	4145	3341	3935	2033-01	1639-01	11.29	83.90	647.5
420	32.000	1.0450	841.00	4170	3361	3958	2045-01	1649-01	11.37	82.99	647.3
421	35.000	50000-01	115.00	1394	1157	1394	6833-02	5670-02	4.473	28.34	553.5
421	35.000	60000	110.00	1041	8600-01	1041	5101-02	4214-02	3.253	32.50	570.5
421	39.000	10000-00	116.00	1074	8920-01	1074	5265-02	4374-02	3.470	22.03	549.0
421	40.000	76000-01	121.00	7780-01	6370-01	7780-01	3814-02	3172-02	2.530	16.10	544.9
421	40.000	15000	111.00	1780	1470	1780	8726-02	7204-02	5.544	40.58	572.7
421	40.000	20000	112.00	1032	8520-01	1032	5060-02	4178-02	3.218	35.34	572.2
421	42.500	50000-01	127.00	9240-01	7690-01	9240-01	4532-02	3768-02	3.000	17.57	546.1
420	45.000	92500	969.00	2340-01	1940-01	2340-01	1146-02	9527-03	7.550	5.606	544.3
420	45.000	95000	973.00	4000-03	4000-03	4000-03	2108-04	1755-04	1400-01	1040	538.7
420	45.000	97500	978.00	2400-02	2000-02	2400-02	1189-03	9301-04	7900-01	5880	538.6
421	51.000	20000	118.00	530-01	3850-01	4630-01	2270-02	1889-02	1.512	9.633	542.1
421	60.000	50000-01	131.00	3550-01	2960-01	3560-01	1744-02	1453-02	1.168	7.906	538.4
421	67.500	20000	128.00	2930-01	2440-01	2930-01	1435-02	1195-02	9570	7.116	541.4
420	75.000	97500	977.00	1800-02	1500-02	1800-02	9047-04	7531-04	6000-01	4470	538.9
420	85.000	97500	976.00	1800-02	1500-02	1800-02	8896-04	8896-04	5900-01	4400	538.9
421	105.00	40100	135.00	1840-01	1540-01	1840-01	9038-03	7525-03	6030	4.665	540.4
421	105.00	60100	136.00	2760-01	2300-01	2760-01	1353-02	1126-02	8980	7.145	544.3
421	105.00	70100	137.00	4420-01	3670-01	4420-01	2166-02	1799-02	1.429	11.34	548.3
421	125.00	70100	138.00	1170-01	9700-02	1170-01	5729-03	4770-03	3830	3.050	540.4
421	125.00	80000	139.00	3300-02	2800-02	3300-02	1634-03	1362-03	1.100	8.760	536.9
421	125.00	90000	146.00	3310-01	2750-01	3310-01	1621-02	1349-02	1.077	8.574	543.5
421	125.00	10000-00	147.00	4400-01	3660-01	4400-01	2159-02	1795-02	1.429	11.35	546.3
421	125.00	10000-00	148.00	1550-01	1290-01	1550-01	6338-03	3825-03	5080	4.051	540.6
421	120.00	80500	132.00	9400-02	7800-02	9400-02	4588-03	3090	1.867	535.2	535.2
421	120.00	80500	247.00	5300-01	4400-01	5300-01	2595-02	2156-02	1.709	13.98	549.9
421	120.00	80500	248.00	7210-01	5930-01	7210-01	2937-02	2596-02	2.326	19.03	550.3
421	120.00	80500	249.00	4670-01	3880-01	4670-01	1903-02	2288-02	1.521	11.07	543.2
421	130.00	80500	253.00	7640-01	6350-01	7640-01	3113-02	3748-02	2.467	19.55	549.9

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(C91G) BTU/ P FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
421	130.00	.82900	254.00	.7430-01	.6170-01	.7430-01	.3640-02	.3025-02	.3640-02	2.402	18.49	548.2
421	130.00	.86200	255.00	.3510-01	.2920-01	.3510-01	.1718-02	.1431-02	.1718-02	1.149	9.463	539.3
421	135.00	.40100	142.00	.1000-02	.8000-03	.1000-02	.4985-04	.4158-04	.4985-04	.3400-01	.2610	533.8
421	135.00	.50100	143.00	.2100-02	.1800-02	.2100-02	.1030-03	.9583-04	.1030-03	.6900-01	.5720	535.5
421	135.00	.50100	144.00	.5500-02	.4700-02	.5500-02	.2750-03	.2392-03	.2750-03	.1850	1.432	536.2
421	135.00	.70100	145.00	.5700-02	.5500-02	.5700-02	.3260-03	.2717-03	.3260-03	.2190	1.752	536.0
421	140.00	.18000	85.000	.6700-02	.5600-02	.6700-02	.3276-03	.2730-03	.3276-03	.2200	1.695	536.9
421	140.00	.19500	87.000	.1100-01	.9200-02	.1100-01	.5390-03	.4498-03	.5390-03	.3520	2.794	536.7
421	145.00	.60500	259.00	.3870-01	.3220-01	.3870-01	.1697-02	.1579-02	.1697-02	1.264	9.760	541.9
422	145.00	.82900	260.00	.2220-01	.1850-01	.2220-01	.1091-02	.9090-03	.1091-02	.7360	5.527	539.0
422	145.00	.86200	261.00	.5300-02	.4400-02	.5300-02	.2611-03	.2179-03	.2611-03	.1780	1.467	533.7
421	150.00	.16000	84.000	.7300-02	.6100-02	.7300-02	.3600-03	.3000-03	.3600-03	.2420	1.800	537.1
421	150.00	.18000	84.000	.1090-01	.9000-02	.1090-01	.5308-03	.4423-03	.5308-03	.3560	2.651	537.7
421	150.00	.19000	82.000	.2030-03	.2000-03	.2030-03	.9595-05	.8005-05	.9595-05	.6000-02	4800-01	532.2
421	150.00	.16000	80.000	.1190-01	.9300-02	.1190-01	.5845-03	.4870-03	.5845-03	.3920	2.918	537.9
421	155.00	.18000	77.000	.3610-01	.3000-01	.3610-01	.1770-02	.1472-02	.1770-02	1.174	9.342	544.6
421	175.00	.15000	81.000	.4250-01	.3530-01	.4250-01	.2081-02	.1732-02	.2081-02	1.384	9.950	543.2
421	175.00	.16500	79.000	.2240-01	.1870-01	.2240-01	.1100-02	.9155-03	.1100-02	.7340	5.456	541.1
421	175.00	.17500	78.000	.8330-01	.6970-01	.8330-01	.4110-02	.3414-02	.4110-02	2.709	19.42	549.1
420	183.00	.10000-01	53.000	.1736	.1434	.1736	.8514-02	.7035-02	.8514-02	5.413	39.73	567.2
420	183.00	.25000-01	60.000	.4790-01	.3530-01	.4790-01	.2330-02	.1951-02	.2330-02	1.534	10.59	550.2
420	180.00	.50000-01	61.000	.2040-01	.1700-01	.2040-01	.1001-02	.8315-03	.1001-02	.6580	4.184	545.7
420	180.00	.75000-01	62.000	.1110-01	.9200-02	.1110-01	.5433-03	.4517-03	.5433-03	.3580	2.281	543.6
420	180.00	.10000-00	63.000	.9500-02	.7500-02	.9500-02	.4657-03	.3872-03	.4657-03	.3070	2.015	543.0
420	180.00	.12500	64.000	.1320-01	.1100-01	.1320-01	.6460-03	.5348-03	.6460-03	.4270	2.977	543.4
420	180.00	.15000	65.000	.2480-01	.2060-01	.2480-01	.1215-02	.1010-02	.1215-02	.8000	5.571	544.2
420	180.00	.16000	65.000	.7300-01	.6050-01	.7300-01	.3578-02	.2559-02	.3578-02	2.330	12.92	552.0
420	180.00	.17000	67.000	.9550-01	.7920-01	.9550-01	.4635-02	.3887-02	.4635-02	3.050	16.92	551.9
420	180.00	.20000	69.000	.1440-01	.1200-01	.1440-01	.7084-03	.5993-03	.7084-03	.4690	2.904	541.5
420	180.00	.40100	72.000	.1180-01	.9800-02	.1180-01	.5799-03	.4823-03	.5799-03	.3830	3.254	542.5
420	180.00	.50000	73.000	.9900-02	.8200-02	.9900-02	.4850-03	.4034-03	.4850-03	.3210	2.725	541.8
420	180.00	.60100	74.000	.7600-02	.6300-02	.7600-02	.3706-03	.3083-03	.3706-03	.2450	2.016	541.7
420	180.00	.70100	75.000	.6900-02	.5700-02	.6900-02	.3362-03	.2798-03	.3362-03	.2230	1.776	540.4

FUSELAGE

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = -7.000 SPOBRK = 40.00  
BDCLAP = 15.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
396	7.900	.5313	40.06	.0000	180.0	110.3	1200-01	1285-	95.30	.5350	3779.	.1079-04
397	7.900	.5295	40.05	.0000	180.0	110.1	1200-01	1286.	95.40	.5340	3781.	.1076-04
398	7.900	.5301	40.05	.0000	180.0	110.4	1200-01	1288.	95.50	.5360	3783.	.1078-04

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
396	.00000	.00000	1.0000	.6134	.5053	.5490	.1100-01	.9053-02	.9845-02	6.609	36.60	555.7
396	.00000	.50000-02	2.0000	.7198	.5918	.5918	.1291-01	.1051-01	.1051-01	7.671	52.92	562.2
396	.00000	.10000-01	3.0000	.6462	.5318	.5380	.1159-01	.9538-02	.9648-02	6.926	46.41	558.7
396	.00000	.20000-01	4.0000	.4228	.3491	.3628	.7582-02	.6261-02	.6507-02	4.615	25.66	547.7
396	.00000	.30000-01	5.0000	.3439	.2841	.3090	.6167-02	.5035-02	.5380-02	3.767	20.96	545.7
396	.00000	.40000-01	6.0000	.2899	.2397	.2558	.5200-02	.4298-02	.4588-02	3.185	17.74	544.0
396	.00000	.50000-01	7.0000	.2773	.2289	.2465	.4974-02	.4105-02	.4421-02	3.019	20.33	549.5
396	.00000	.60000-01	8.0000	.2855	.2358	.2555	.5120-02	.4229-02	.4582-02	3.121	19.83	547.0
396	.00000	.70000-01	9.0000	.2519	.2079	.2268	.4517-02	.3729-02	.4068-02	2.747	15.34	548.1
396	.00000	.80000-01	10.000	.2024	.1671	.1832	.3630-02	.2997-02	.3286-02	2.208	13.28	545.5
396	.00000	.90000-01	11.000	.1905	.1574	.1732	.3417-02	.2823-02	.3105-02	2.088	11.32	545.2
396	.00000	.10000+00	12.000	.1716	.1418	.1565	.3079-02	.2544-02	.2807-02	1.882	9.882	542.8
396	.00000	.12000	14.000	.1611	.1332	.1477	.2890-02	.2389-02	.2649-02	1.773	10.33	543.3
396	.00000	.13000	15.000	.1602	.1324	.1471	.2873-02	.2375-02	.2638-02	1.761	10.49	543.6
396	.00000	.14000	16.000	.1499	.1239	.1378	.2688-02	.2222-02	.2471-02	1.648	10.27	544.2
396	.00000	.16000	18.000	.1511	.1249	.1392	.2710-02	.2240-02	.2496-02	1.659	10.48	544.7
396	.00000	.17000	19.000	.1502	.1241	.1385	.2693-02	.2226-02	.2483-02	1.648	10.48	544.7



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAH) FTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DT/DT DEG. R /SEC	TW DEG. R
396	00000	.18000	20.000	.1539	.1272	.1421	.2760-02	.2281-02	.2548-02	1.689	10.75	544.4
396	.00000	.19000	21.000	.1426	.1179	.1318	.2557-02	.2115-02	.2364-02	1.572	10.01	541.9
396	.00000	.20000	22.000	.1431	.1183	.1324	.2556-02	.2121-02	.2374-02	1.571	10.00	544.1
396	.00000	.22500	23.000	.1359	.1132	.1270	.2456-02	.2030-02	.2278-02	1.506	9.593	543.1
396	.00000	.25000	801.00	.1330	.1099	.1236	.2384-02	.1971-02	.2216-02	1.463	9.317	542.9
396	.00000	.30000	802.00	.1218	.1007	.1132	.2184-02	.1806-02	.2029-02	1.340	8.532	543.0
396	.00000	.35000	803.00	.1244	.1028	.1155	.2230-02	.1843-02	.2072-02	1.365	8.685	544.5
396	.00000	.40000	804.00	.1195	.9870-01	.1110	.2142-02	.1771-02	.1931-02	1.312	8.594	544.2
396	.00000	.45000	805.00	.1113	.9190-01	.1034	.1996-02	.1649-02	.1854-02	1.219	8.218	545.9
396	.00000	.50000	806.00	.1005	.8310-01	.9350-01	.1935-02	.1491-02	.1676-02	1.102	7.664	545.9
396	.00000	.55000	807.00	.9460-01	.7810-01	.8790-01	.1896-02	.1401-02	.1576-02	1.033	7.661	547.3
396	.00000	.60000	808.00	.8630-01	.7130-01	.8020-01	.1547-02	.1278-02	.1437-02	.9430	6.594	546.9
396	.00000	.65000	809.00	.8200-01	.6770-01	.7510-01	.1470-02	.1214-02	.1366-02	.8940	6.624	548.5
396	.00000	.70000	810.00	.8010-01	.6510-01	.7440-01	.1436-02	.1186-02	.1334-02	.8740	6.697	548.2
396	.00000	.75000	811.00	.8160-01	.6730-01	.7580-01	.1463-02	.1209-02	.1359-02	.8900	6.596	548.0
396	.00000	.80000	812.00	.7880-01	.6740-01	.7500-01	.1463-02	.1208-02	.1359-02	.8910	6.605	547.4
396	.00000	.85000	813.00	.7880-01	.6600-01	.7500-01	.1432-02	.1183-02	.1344-02	.8730	6.700	546.6
396	.00000	.90000	814.00	.7230-01	.5970-01	.6800-01	.1295-02	.1071-02	.1219-02	.7930	5.696	544.6
396	.00000	.92500	815.00	.5970-01	.4940-01	.5630-01	.1071-02	.6851-03	.1010-02	.6560	5.418	543.3
396	.00000	.95000	816.00	.3870-01	.3200-01	.3660-01	.6943-03	.5740-03	.6568-03	.4260	3.516	543.1
396	.00000	.97500	817.00	.2040-01	.1680-01	.1930-01	.3652-03	.3018-03	.3463-03	.2240	1.844	544.4
396	.00000	1.0150	817.00	.4840-01	.3930-01	.4600-01	.8673-03	.7147-03	.8244-03	.5220	3.854	554.8
396	.00000	1.0300	819.00	.1884	.1551	.1790	.3379-02	.2782-02	.3211-02	2.025	14.94	557.1
396	.00000	1.0600	821.00	.2615	.2152	.2485	.4690-02	.3859-02	.4456-02	2.798	23.34	559.9
396	.00000	1.5000	89.000	.4900-02	.4100-02	.4900-02	.8943-04	.7330-04	.8843-04	.5500-01	.3330	533.8
396	11.500	.20000	91.000	.8400-02	.7000-02	.8400-02	.1514-03	.1255-03	.1514-03	.9500-01	.5890	531.7
396	14.000	.50000-01	90.000	.1670-01	.1390-01	.1670-01	.2936-03	.2484-03	.2936-03	.1870	1.132	532.5
396	17.500	.40000	823.00	.1158	.9560-01	.1075	.2076-02	.1714-02	.1928-02	1.263	10.02	548.3
396	17.500	.50000	824.00	.1098	.9060-01	.1020	.1970-02	.1626-02	.1820-02	1.196	9.491	549.2
396	17.500	.60000	825.00	.7420-01	.6120-01	.6890-01	.1330-02	.1097-02	.1255-02	.8070	7.169	549.8
396	17.500	.70000	826.00	.8560-01	.7060-01	.7940-01	.1534-02	.1266-02	.1425-02	.9300	6.882	550.5
396	17.500	.80000	827.00	.7940-01	.6550-01	.7370-01	.1423-02	.1175-02	.1322-02	.8660	6.417	548.0
396	17.500	.90000	828.00	.6500-01	.5370-01	.6110-01	.1165-02	.9826-03	.1056-02	.7120	5.664	545.0
397	20.000	.10000+00	103.00	.2559	.2115	.2559	.4585-02	.3791-02	.4585-02	2.814	16.50	543.9
397	20.000	.15000	104.00	.1705	.1410	.1705	.3055-02	.2526-02	.3055-02	1.876	11.94	543.6
396	20.000	.92500	971.00	.4370-01	.3610-01	.4370-01	.7534-03	.6480-03	.7834-03	.4820	3.582	541.6
396	20.000	.95000	975.00	.6510-01	.5330-01	.6510-01	.1168-02	.9660-03	.1168-02	.7180	5.340	541.5
396	20.000	.97500	980.00	.6860-01	.5670-01	.6860-01	.1230-02	.1018-02	.1230-02	.7580	5.637	540.4
397	22.000	.50000-01	105.00	.2377	.1966	.2377	.4260-02	.3524-02	.4260-02	2.625	14.64	541.4
396	24.000	.20000	93.000	.8800-02	.7300-02	.8800-02	.1590-03	.1310-03	.1580-03	.9900-01	.6140	531.9
397	24.500	.10000+00	106.00	.2672	.2208	.2672	.4788-02	.3958-02	.4788-02	2.934	18.67	544.9
397	25.500	.15000	107.00	.1869	.1544	.1869	.3350-02	.2768-02	.3350-02	2.049	18.24	546.3
396	30.000	.92500	970.00	.2710-01	.2250-01	.2710-01	.4866-03	.4031-03	.4866-03	.3020	2.250	536.3

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R/LN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(9T0) BTU/R FT/SEC	H(TO) BTU/R FT/SEC	H(TAM) BTU/R FT/SEC	ODOT BTU/ FT/SEC	DTMOT DEG. R /SEC	TW DEG. R
396	30.000	.95000	974.00	.3930-01	.3170-01	.3830-01	.6871-03	.5688-03	.6871-03	.4250	3.163	538.3
396	30.000	.97500	979.00	.2350-01	.1950-01	.2350-01	.4214-03	.3492-03	.4214-03	.2620	1.956	534.6
397	31.500	.20000	108.00	.1244	.1028	.1244	.2630-02	.1843-02	.2630-02	1.365	13.81	545.6
396	32.000	.40000	831.00	.1374	.1135	.1276	.2460-02	.2035-02	.2288-02	1.503	10.45	546.4
396	32.000	.50000	832.00	.1141	.0941-01	.1059	.2045-02	.1688-02	.1899-02	1.242	8.904	549.1
396	32.000	.60000	833.00	.1013	.0860-01	.0941-01	.1817-02	.1499-02	.1687-02	1.101	7.404	550.9
396	32.000	.70000	834.00	.6270-01	.5170-01	.5820-01	.1124-02	.9267-03	.1043-02	6.790	5.194	552.3
396	32.000	.80000	835.00	.7080-01	.5840-01	.6570-01	.1269-02	.1048-02	.1178-02	7.720	5.537	548.0
396	32.000	.90000	836.00	.7970-01	.6590-01	.7530-01	.1217-02	.1181-02	.1146-02	7.450	5.528	544.9
396	32.000	.95000	837.00	.7970-01	.6590-01	.7530-01	.1429-02	.1181-02	.1351-02	8.740	6.710	544.8
396	32.000	.97500	838.00	.2220-01	.1840-01	.2110-01	.3981-03	.3294-03	.3777-03	2.450	1.953	540.9
396	32.000	1.0150	839.00	.4550-01	.3750-01	.4160-01	.8153-03	.6717-03	.7455-03	4.900	3.945	551.7
397	32.000	1.0300	840.00	.1539	.1267	.1407	.2760-02	.2272-02	.2523-02	1.652	12.82	558.0
396	32.000	1.0450	841.00	.1960	.1613	.1791	.3514-02	.2893-02	.3212-02	2.102	16.04	558.2
397	35.000	.50000-01	115.00	.1274	.1055	.1274	.2283-02	.1890-02	.2458-02	1.412	9.013	539.1
397	35.000	.20000	110.00	.1371	.1132	.1371	.2458-02	.2029-02	.2458-02	1.498	15.14	548.2
397	39.000	.10000+00	116.00	.1095	.9660-01	.1095	.1962-02	.1624-02	.1562-02	1.212	7.732	539.9
397	40.000	.76000-01	121.00	.7510-01	.6220-01	.7510-01	.1345-02	.1115-02	.1345-02	8.350	5.335	537.0
397	40.000	1.5000	111.00	.2101	.1735	.2101	.3765-02	.3110-02	.3765-02	2.298	17.04	547.2
397	40.000	.20000	112.00	.1312	.1083	.1312	.2352-02	.1941-02	.2352-02	1.432	15.91	548.7
397	42.500	.50000-01	127.00	.9150-01	.7580-01	.9150-01	.1639-02	.1358-02	.1639-02	1.016	6.862	537.8
397	45.000	.15000	117.00	.9530-01	.7890-01	.9530-01	.1708-02	.1413-02	.1708-02	1.055	6.200	539.8
396	45.000	.92500	969.00	.2500-02	.2100-02	.2500-02	.4541-04	.3767-04	.4541-04	2800-01	3.120	530.6
396	45.000	.95000	973.00	.4000-03	.4000-03	.4000-03	.7920-05	.6571-05	.7920-05	5000-02	3.700-01	530.3
396	45.000	.97500	978.00	.1000-02	.0540-03	.1000-02	.1835-04	.1522-04	.1835-04	1.100-01	8.600-01	529.9
397	51.000	.20000	118.00	.4980-01	.4130-01	.4980-01	.8926-03	.7393-03	.8926-03	5540	3.536	537.4
397	60.000	.50000-01	131.00	.2500-01	.2070-01	.2500-01	.4478-03	.3712-03	.4478-03	2.790	1.894	534.3
397	67.500	.20000	128.00	.2900-01	.2400-01	.2900-01	.5192-03	.4302-03	.5192-03	3230	2.407	536.0
396	75.000	.97500	977.00	.1200-02	.1000-02	.1200-02	.2076-04	.1723-04	.2076-04	1300-01	9.700-01	530.1
396	85.000	.97500	976.00	.1000-03	.1000-03	.1000-03	.2490-05	.2067-05	.2490-05	2000-02	1.200-01	529.7
397	105.00	.40100	135.00	.2320-01	.1920-01	.2320-01	.4157-03	.3446-03	.4157-03	2590	2.012	534.0
397	105.00	.50100	136.00	.1920-01	.1590-01	.1920-01	.2850-03	.2850-03	.3439-03	2140	1.712	535.1
397	105.00	.60100	137.00	.6300-02	.5200-02	.6300-02	.9288-04	.9288-04	.1120-03	7000-01	5.590	534.2
397	105.00	.70100	138.00	.2500-02	.2100-02	.2500-02	.4439-04	.3681-04	.4439-04	2800-01	2.220	532.5
397	105.00	.80000	139.00	.8000-03	.7000-03	.8000-03	.1477-04	.1225-04	.1477-04	9000-02	7.400-01	530.6
397	113.00	.60100	146.00	.1310-01	.1080-01	.1310-01	.2344-03	.1943-03	.2344-03	1.460	1.171	533.6
397	116.00	.60100	147.00	.1170-01	.9700-02	.1170-01	.2103-03	.1744-03	.2103-03	1.310	1.050	533.8
397	116.00	.75100	148.00	.4700-02	.3900-02	.4700-02	.6501-04	.7055-04	.8501-04	5300-01	4.280	530.2
397	120.00	.10000+00	132.00	.6500-02	.5400-02	.6500-02	.1168-03	.9667-04	.1168-03	7300-01	4.400	533.8
397	120.00	.80500	247.00	.2500-02	.2400-02	.2900-02	.5184-04	.4303-04	.5184-04	3300-01	2.700	529.9
397	120.00	.82900	248.00	.5200-02	.4300-02	.5200-02	.9277-04	.7701-04	.9277-04	5800-01	4.830	529.2
397	120.00	.86200	249.00	.5500-02	.4700-02	.5600-02	.1009-03	.8379-04	.1009-03	6400-01	4.660	529.4
397	130.00	.80500	253.00	.3100-02	.2500-02	.3100-02	.5545-04	.4603-04	.5545-04	3500-01	2.800	528.7

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(RV1842)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H'(9TO) BTU/R FT/SEC	H'(TO) BTU/R FT/SEC	H'(TAN) BTU/R FT/SEC	QDOT BTU/ FT/SEC	DTWOT DEG. R /SEC	TW DEG. R
397	130.00	82900	254.00	.5600-02	.4500-02	.5600-02	.9969-04	.8277-04	.9969-04	.6300-01	.4880	528.5
397	130.00	86200	255.00	.5800-02	.4800-02	.5800-02	.1032-03	.8572-04	.1032-03	.6500-01	.5390	528.2
397	135.00	40100	142.00	.2100-02	.1700-02	.2100-02	.3734-04	.3098-04	.3734-04	.2300-01	.1820	531.0
397	135.00	50100	143.00	.2000-02	.1600-02	.2000-02	.3564-04	.2917-04	.3564-04	.2200-01	.1850	531.5
397	135.00	60100	144.00	.2500-02	.2100-02	.2500-02	.4484-04	.3720-04	.4484-04	.2800-01	.2180	531.8
397	135.00	70100	145.00	.2200-02	.1800-02	.2200-02	.3961-04	.3287-04	.3961-04	.2500-01	.1990	530.5
397	140.00	19500	87.000	.4500-02	.3800-02	.4500-02	.8135-04	.6747-04	.8135-04	.5100-01	.3930	532.5
397	145.00	80300	259.00	.2400-02	.2000-02	.2400-02	.4321-04	.3587-04	.4321-04	.2700-01	.2120	528.2
397	145.00	82900	250.00	.1690-01	.1400-01	.1690-01	.3030-03	.2516-03	.3030-03	.1910	1.443	528.6
398	145.00	86200	261.00	.1900-02	.1600-02	.1900-02	.3775-04	.2803-04	.3775-04	.2100-01	1.770	527.6
397	150.00	16000	85.000	.5700-02	.4700-02	.5700-02	.1017-03	.8432-04	.1017-03	.6300-01	.4740	533.3
397	150.00	16000	84.000	.8600-02	.7200-02	.8600-02	.1548-03	.1284-03	.1548-03	.9700-01	.7220	533.0
397	155.00	16000	80.000	.1020-01	.0400-02	.1020-01	.1825-03	.1513-03	.1825-03	.3000-02	.8500	532.6
397	155.00	16000	83.000	.3000-03	.2000-03	.3000-03	.5232-05	.4342-05	.5232-05	.3000-02	2.500-01	529.8
397	160.00	16000	77.000	.1140-01	.0900-02	.1140-01	.2049-03	.1699-03	.2049-03	.1280	1.023	533.7
397	160.00	16000	81.000	.3270-01	.2710-01	.3270-01	.5856-03	.4854-03	.5856-03	.3650	2.639	534.8
397	175.00	16500	79.000	.1870-01	.1550-01	.1870-01	.3359-03	.2785-03	.3359-03	.2090	1.563	534.1
397	175.00	17500	78.000	.2470-01	.2050-01	.2470-01	.4427-03	.3571-03	.4427-03	.2760	1.995	533.8
396	180.00	10000-01	59.000	.1117	.9250-01	.1117	.2004-02	.1658-02	.2004-02	1.236	9.195	539.8
396	180.00	25000-01	60.000	.3220-01	.2670-01	.3220-01	.5776-03	.4785-03	.5776-03	.3580	2.583	535.5
396	180.00	50000-01	61.000	.1500-01	.1250-01	.1500-01	.2699-03	.2236-03	.2699-03	.1680	1.071	535.4
396	180.00	75000-01	62.000	.1040-01	.0600-02	.1040-01	.1862-03	.1543-03	.1862-03	.1160	.7400	535.1
396	180.00	10000+00	63.000	.1140-01	.0900-02	.1140-01	.2045-03	.1695-03	.2045-03	.1270	.8370	535.4
396	180.00	12500	64.000	.1550-01	.1290-01	.1550-01	.2784-03	.2308-03	.2784-03	.1730	1.212	534.4
396	180.00	15000	65.000	.2320-01	.1920-01	.2320-01	.4165-03	.3452-03	.4165-03	.2590	1.813	534.3
396	180.00	16000	66.000	.5650-01	.4680-01	.5650-01	.1014-02	.8401-03	.1014-02	.6290	3.518	536.0
396	180.00	17000	67.000	.8040-01	.6660-01	.8040-01	.1443-02	.1195-02	.1443-02	.8950	5.006	535.9
396	180.00	20000	69.000	.1730-01	.1430-01	.1730-01	.3097-03	.2568-03	.3097-03	.1730	1.202	532.7
396	180.00	40100	72.000	.3500-02	.2900-02	.3500-02	.5187-04	.5133-04	.6187-04	.3900-01	.3310	530.7
396	180.00	50000	73.000	.3100-02	.2500-02	.3100-02	.5502-04	.4565-04	.5502-04	.3400-01	.2950	530.7
396	180.00	60100	74.000	.3500-02	.2900-02	.3500-02	.5334-04	.5255-04	.6334-04	.4000-01	.3280	530.3
396	180.00	70100	75.000	.3200-02	.2700-02	.3200-02	.5764-04	.4783-04	.5764-04	.3600-01	.2900	529.9

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FUSELAGE

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = -7.000 SPD3RK = 40.00  
BDFCAP = 15.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
405	7.940	1.025	40.07	.0000	180.0	210.2	.2300-01	164.1	92.90	.9980	3749.	.2043-04
406	7.940	1.021	40.07	.0000	180.0	209.5	.2300-01	1264.	92.90	.9950	3749.	.2036-04
407	7.940	1.020	40.06	.0000	180.0	209.9	.2300-01	1266.	93.00	.9970	3753.	.2036-04

RUN NUMBER	MU	HREF BTU/ R /FT2	ST FR R =
405	LB-SEC /FT2		0.0175
406	.7476-07	.2441-01	.4021-01
407	.7477-07	.2437-01	.4028-01
407	.7490-07	.2440-01	.4029-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
405	.00000	.00000	1.0000	.6063	.4966	.5408	.1480-01	.1213-01	.1320-01	8.472	46.69	555.0
405	.00000	.50000-02	2.0000	.7037	.5747	.5747	.1718-01	.1403-01	.1403-01	9.671	66.31	574.4
405	.00000	.10000-01	3.0000	.6376	.5215	.5277	.1557-01	.1273-01	.1288-01	8.835	58.88	569.8
405	.00000	.20000-01	4.0000	.4385	.3602	.3747	.1070-01	.8793-02	.9147-02	6.224	34.46	555.9
405	.00000	.30000-01	5.0000	.3406	.2801	.2961	.8316-02	.6838-02	.7228-02	4.860	27.95	553.0
405	.00000	.40000-01	6.0000	.2884	.2373	.2536	.7041-02	.5793-02	.6192-02	4.131	22.93	550.7
405	.00000	.50000-01	7.0000	.2761	.2267	.2447	.6742-02	.5535-02	.5973-02	3.910	26.22	557.4
405	.00000	.60000-01	8.0000	.2841	.2335	.2535	.6936-02	.5700-02	.6188-02	4.042	25.59	554.6
405	.00000	.70000-01	9.0000	.2506	.2058	.2250	.6118-02	.5025-02	.5493-02	3.553	24.58	556.7
405	.00000	.80000-01	10.000	.1994	.1639	.1801	.4868-02	.4002-02	.4396-02	2.842	19.69	553.6
405	.00000	.90000-01	11.000	.1945	.1600	.1764	.4749-02	.3907-02	.4305-02	2.786	17.67	550.7
405	.00000	1.0000+00	12.000	.1778	.1462	.1618	.4341-02	.3570-02	.3949-02	2.540	15.23	552.3
405	.00000	.12000	14.000	.1655	.1382	.1514	.4040-02	.3326-02	.3696-02	2.378	13.21	548.9
405	.00000	.13000	15.000	.1538	.1266	.1409	.3755-02	.3091-02	.3441-02	2.208	12.91	549.6
405	.00000	.14000	16.000	.1473	.1212	.1351	.3595-02	.2960-02	.3299-02	2.113	13.41	549.8
405	.00000	.15000	18.000	.1556	.1281	.1431	.3800-02	.3126-02	.3492-02	2.229	13.75	550.8
405	.00000	.17000	19.000	.1519	.1250	.1398	.3710-02	.3052-02	.3414-02	2.174	13.79	551.2

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ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B42)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TC) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTADT DEG. R /SEC	TW DEG. R
405	.00000	.18000	20.000	.1545	.1271	.1423	.3773-02	.3104-02	.3475-02	2.210	14.02	551.5
405	.00000	.19000	21.000	.1443	.1188	.1331	.3522-02	.2900-02	.3249-02	2.073	13.17	548.7
405	.00000	.20000	22.000	.1422	.1170	.1313	.3471-02	.2856-02	.3206-02	2.037	12.92	550.6
405	.00000	.22500	23.000	.1324	.1090	.1226	.3233-02	.2661-02	.2994-02	1.901	12.07	549.5
405	.00000	.25000	801.00	.1306	.1075	.1211	.3187-02	.2623-02	.2956-02	1.874	11.89	549.5
405	.00000	.30000	802.00	.1185	.9750-01	.1099	.2893-02	.2381-02	.2684-02	1.700	10.79	549.9
405	.00000	.35000	803.00	.1248	.1026	.1157	.3046-02	.2505-02	.2824-02	1.781	11.29	552.6
405	.00000	.40000	804.00	.1202	.9890-01	.1115	.2936-02	.2414-02	.2722-02	1.718	11.21	552.2
405	.00000	.45000	805.00	.1027	.8440-01	.9520-01	.2508-02	.2062-02	.2325-02	1.464	9.836	553.6
405	.00000	.50000	806.00	.9500-01	.7830-01	.8900-01	.2344-02	.1927-02	.2173-02	1.368	9.479	553.8
405	.00000	.55000	807.00	.9473-01	.7780-01	.8780-01	.2312-02	.1899-02	.2143-02	1.345	9.929	555.7
405	.00000	.60000	808.00	.8630-01	.7130-01	.8050-01	.2120-02	.1741-02	.1964-02	1.233	9.103	555.7
405	.00000	.65000	809.00	.8100-01	.6650-01	.7500-01	.1977-02	.1623-02	.1832-02	1.146	8.452	557.6
405	.00000	.70000	810.00	.8020-01	.6590-01	.7430-01	.1959-02	.1608-02	.1815-02	1.135	8.656	558.1
405	.00000	.75000	811.00	.7570-01	.6220-01	.7020-01	.1849-02	.1518-02	.1713-02	1.071	7.902	557.8
405	.00000	.80000	812.00	.8610-01	.7070-01	.7980-01	.2101-02	.1725-02	.1947-02	1.219	8.991	557.3
405	.00000	.85000	813.00	.7770-01	.6380-01	.7280-01	.1897-02	.1558-02	.1777-02	1.102	8.410	556.6
405	.00000	.90000	814.00	.7510-01	.6170-01	.7060-01	.1834-02	.1507-02	.1723-02	1.069	7.638	554.7
405	.00000	.92500	815.00	.6220-01	.5120-01	.5860-01	.1519-02	.1249-02	.1431-02	.8870	7.284	553.6
405	.00000	.95000	816.00	.5470-01	.4500-01	.5170-01	.1336-02	.1098-02	.1261-02	.7790	6.391	554.5
405	.00000	.97500	817.00	.2570-01	.2120-01	.2440-01	.6286-03	.5164-03	.5950-03	.3660	3.002	555.3
405	.00000	1.0150	818.00	.1434	.1170	.1359	.3500-02	.2856-02	.3317-02	1.963	14.34	576.4
405	.00000	1.0300	819.00	.3763	.3068	.3566	.9187-02	.7491-02	.8706-02	5.127	37.40	579.3
405	.00000	1.0600	821.00	.3232	.2672	.3061	.7890-02	.6425-02	.7474-02	4.373	36.05	583.1
405	.00000	1.5000	89.000	.4600-02	.3800-02	.4600-02	.1126-03	.9307-04	.1126-03	.6800-01	.4090	536.1
405	11.500	.20000	91.000	.8500-02	.7100-02	.8500-02	.2082-03	.1721-03	.2082-03	.1260	.7810	534.1
405	14.000	.40000	90.000	.1290-01	.1070-01	.1290-01	.3161-03	.2612-03	.3161-03	.1900	1.150	535.6
405	17.500	.50000	823.00	.1145	.9470-01	.1061	.2796-02	.2296-02	.2590-02	1.622	12.82	557.3
405	17.500	.50000	824.00	.1047	.8590-01	.9700-01	.2555-02	.2097-02	.2368-02	1.478	11.67	558.9
405	17.500	.60000	825.00	.6840-01	.5620-01	.6340-01	.1671-02	.1371-02	.1548-02	.9670	8.549	559.0
405	17.500	.70000	826.00	.8470-01	.6950-01	.7850-01	.2059-02	.1698-02	.1916-02	1.196	8.810	559.4
405	17.500	.80000	827.00	.8140-01	.6680-01	.7540-01	.1988-02	.1632-02	.1842-02	1.152	8.497	557.8
405	17.500	.90000	828.00	.6510-01	.5350-01	.6120-01	.1590-02	.1306-02	.1493-02	.9260	7.327	555.0
406	20.000	.10000+00	103.00	.2560	.2108	.2560	.6241-02	.5138-02	.6241-02	3.675	21.50	548.6
406	20.000	.15000	104.00	.1704	.1403	.1704	.4154-02	.3420-02	.4154-02	2.446	15.54	548.6
405	20.000	.92500	971.00	.7750-01	.6360-01	.7750-01	.1892-02	.1554-02	.1892-02	1.097	8.095	557.4
405	20.000	.95000	975.00	.7380-01	.6080-01	.7380-01	.1803-02	.1484-02	.1803-02	1.059	7.841	549.9
405	20.000	.97500	980.00	.7950-01	.6550-01	.7950-01	.1942-02	.1599-02	.1942-02	1.143	8.469	548.9
406	22.000	.50000-01	105.00	.2323	.1916	.2323	.5662-02	.4669-02	.5662-02	3.363	18.73	543.6
405	24.000	.20000	93.000	.1030-01	.8500-02	.1030-01	.2505-03	.2071-03	.2505-03	.1510	.9390	534.5
406	24.500	.10000+00	106.00	.2627	.2162	.2627	.6404-02	.5270-02	.6404-02	3.762	23.88	550.0
406	25.500	.15000	107.00	.1861	.1531	.1861	.4537-02	.3731-02	.4537-02	2.657	23.58	551.9
405	30.000	.92500	970.00	.6540-01	.5380-01	.6540-01	.1597-02	.1314-02	.1597-02	.9360	6.929	550.9

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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(RV1842)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(OTO) BTU/ R FT2SEC	H(OTO) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
405	30.000	.95000	974.00	.5760-01	.4750-01	.5760-01	.1407-02	.1159-02	.1407-02	.8300	6.149	547.8
405	30.000	.97500	979.00	.4590-01	.3780-01	.4590-01	.1120-02	.1120-02	.1120-02	.8300	4.897	547.6
405	31.500	.20000	108.00	.1254	.1032	.1254	.3056-02	.2515-02	.3056-02	1.795	18.12	550.0
405	32.000	.40000	831.00	.1375	.1130	.1275	.3357-02	.2759-02	.3112-02	1.956	13.54	554.7
405	32.000	.50000	832.00	.1189	.9760-01	.1101	.2902-02	.2382-02	.2689-02	1.680	11.99	558.4
405	32.000	.60000	833.00	.1005	.8240-01	.9310-01	.2453-02	.2012-02	.2272-02	1.416	9.482	560.1
405	32.000	.70000	834.00	.8670-01	.7110-01	.8030-01	.2117-02	.1737-02	.1961-02	1.222	9.312	560.1
405	32.000	.80000	835.00	.7440-01	.6110-01	.6890-01	.1817-02	.1491-02	.1683-02	1.052	7.507	558.2
405	32.000	.90000	835.00	.6780-01	.5570-01	.6360-01	.1654-02	.1359-02	.1554-02	.9640	7.120	554.6
405	32.000	.95000	837.00	.8580-01	.7050-01	.8100-01	.2095-02	.1722-02	.1978-02	1.222	9.341	554.2
405	32.000	.97500	838.00	.5930-01	.4880-01	.5620-01	.1448-02	.1190-02	.1371-02	.8450	6.686	554.2
405	32.000	1.0150	839.00	.1123	.9160-01	.1022	.2743-02	.2237-02	.2495-02	1.532	12.20	578.7
405	32.000	1.0300	840.00	.2887	.2354	.2626	.7049-02	.5746-02	.6412-02	3.931	30.18	580.6
405	32.000	1.0450	841.00	.3380	.2754	.3074	.8251-02	.6725-02	.7505-02	4.594	34.65	580.6
406	35.000	.50000-01	115.00	.1261	.1040	.1261	.3073-02	.2534-02	.3073-02	1.029	11.65	542.2
406	35.000	.20000	110.00	.1341	.1103	.1341	.3268-02	.2687-02	.3268-02	1.912	19.29	552.3
406	39.000	.10000+00	116.00	.1049	.8650-01	.1049	.2557-02	.2109-02	.2557-02	1.521	9.689	542.6
406	40.000	.76000-01	121.00	.7180-01	.5930-01	.7180-01	.1750-02	.1445-02	.1750-02	1.046	6.672	539.9
406	40.000	.15000	111.00	.2122	.1744	.2122	.5171-02	.4230-02	.5171-02	3.018	22.30	553.9
406	40.000	.20000	112.00	.1254	.1031	.1254	.3057-02	.2513-02	.3057-02	1.785	19.79	553.6
406	42.500	.50000-01	127.00	.6300-01	.7350-01	.8900-01	.2169-02	.1790-02	.2169-02	1.296	8.765	540.2
406	45.000	.15000	117.00	.9270-01	.7640-01	.9270-01	.2258-02	.1863-02	.2258-02	1.344	7.888	542.3
405	45.000	.92500	969.00	.6800-02	.5600-02	.6800-02	.1654-03	.1367-03	.1654-03	1.000+00	.7430	534.9
405	45.000	.95000	973.00	.1000-02	.8000-03	.1000-02	.2326-04	.1924-04	.2326-04	1.400-01	.1050	532.9
405	45.000	.97500	978.00	.1200-02	.1000-02	.1200-02	.3036-04	.2512-04	.3036-04	1.800-01	.1370	532.5
406	51.000	.20000	118.00	.4930-01	.4060-01	.4930-01	.1201-02	.9908-03	.1201-02	.7170	4.569	540.6
406	60.000	.50000-01	131.00	.2330-01	.1920-01	.2330-01	.5674-03	.4688-03	.5674-03	3.410	2.313	536.0
406	67.500	.20000	128.00	.2820-01	.2330-01	.2820-01	.6559-03	.5670-03	.6559-03	4.110	3.056	539.7
405	75.000	.97500	977.00	.1500-02	.1300-02	.1500-02	.3736-04	.3090-04	.3736-04	.2300-01	.1690	532.6
405	85.000	.97500	976.00	.1000-03	.1000-03	.1000-03	.3572-05	.2955-05	.3572-05	.2000-02	.1600-01	532.0
406	105.00	.50100	135.00	.2480-01	.2050-01	.2480-01	.6057-03	.5002-03	.6057-03	3.630	2.811	538.1
406	105.00	.50100	136.00	.2440-01	.2010-01	.2440-01	.5937-03	.4902-03	.5937-03	3.550	2.835	539.1
406	105.00	.60100	137.00	.9400-02	.7700-02	.9400-02	.2282-03	.1884-03	.2282-03	1.370	1.092	538.0
406	105.00	.70100	138.00	.1100-02	.9000-03	.1100-02	.2648-04	.2188-04	.2648-04	1.600-01	.1270	536.0
406	105.00	.80000	139.00	.1900-02	.1600-02	.1900-02	.4611-04	.3812-04	.4611-04	.2800-01	.2230	534.0
406	113.00	.60100	146.00	.1470-01	.1210-01	.1470-01	.3583-03	.2959-03	.3583-03	.2150	1.716	537.8
406	116.00	.60100	147.00	.1230-01	.1010-01	.1230-01	.2994-03	.2473-03	.2994-03	1.790	1.433	538.1
406	116.00	.75100	148.00	.1500-02	.1300-02	.1500-02	.3710-04	.3067-04	.3710-04	.2200-01	.1790	534.9
405	120.00	.10000+00	132.00	.5900-02	.4900-02	.5900-02	.1432-03	.1183-03	.1432-03	.8600-01	.5200	536.4
405	120.00	.80500	247.00	.2400-02	.2000-02	.2400-02	.5736-04	.4787-04	.5736-04	3.500-01	.2900	531.8
405	120.00	.82900	248.00	.4400-02	.3600-02	.4400-02	.1063-03	.8788-04	.1063-03	.6400-01	.5330	532.1
406	120.00	.86200	249.00	.4100-02	.3400-02	.4100-02	.1007-03	.8330-04	.1007-03	.6100-01	.4470	531.2
406	130.00	.80500	253.00	.2500-02	.2100-02	.2500-02	.6082-04	.5032-04	.6082-04	.3700-01	.2950	531.7

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1842)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
406	130.00	.82900	254.00	.4800-02	.4000-02	.4800-02	.1171-03	.9689-04	.1171-03	.7100-01	.5520	531.4
406	130.00	.86200	255.00	.5500-02	.4600-02	.5500-02	.1343-03	.1111-03	.1343-03	.8100-01	.6740	531.0
406	135.00	.40100	142.00	.1900-02	.1600-02	.1900-02	.4666-04	.3857-04	.4666-04	.2800-01	.2180	534.2
406	135.00	.50100	143.00	.2400-02	.2000-02	.2400-02	.5765-04	.4765-04	.5765-04	.3500-01	.2870	534.6
406	135.00	.60100	144.00	.3300-02	.2700-02	.3300-02	.7975-04	.6594-04	.7975-04	.4800-01	.3730	534.3
406	135.00	.70100	145.00	.2100-02	.1700-02	.2100-02	.5013-04	.4145-04	.5013-04	.3000-01	.2420	533.8
406	140.00	.18000	85.000	.2040-01	.1680-01	.2040-01	.4963-03	.4102-03	.4963-03	.2990	2.30	534.9
406	140.00	.19500	87.000	.6800-02	.5600-02	.6800-02	.1645-03	.1360-03	.1645-03	.9900-01	.764	536.0
406	145.00	.80500	259.00	.2900-02	.2400-02	.2900-02	.7031-04	.5818-04	.7031-04	.4300-01	.3310	531.3
407	145.00	.82900	260.00	.1200-01	.1000-01	.1200-01	.2938-03	.2431-03	.2938-03	.1780	1.343	533.0
407	145.00	.86200	261.00	.2900-02	.2400-02	.2900-02	.6967-04	.5768-04	.6967-04	.4200-01	.3510	530.3
406	150.00	.16000	86.000	.1460-01	.1210-01	.1460-01	.3564-03	.2945-03	.3564-03	.2140	1.596	536.7
406	150.00	.18000	84.000	.1300-01	.1070-01	.1300-01	.3166-03	.2616-03	.3166-03	.1900	1.420	536.2
406	150.00	.19000	82.000	.2000-03	.2000-03	.2000-03	.5507-05	.4555-05	.5507-05	.3000-02	.2500-01	532.5
406	155.00	.16000	80.000	.1660-01	.1370-01	.1660-01	.4057-03	.3351-03	.4057-03	.2430	1.814	537.3
406	155.00	.18000	83.000	.3000-03	.2000-03	.3000-03	.7007-05	.5797-05	.7007-05	.4000-02	.3200-01	532.1
406	160.00	.18000	77.000	.1490-01	.1230-01	.1490-01	.3629-03	.2999-03	.3629-03	.2180	1.743	536.2
406	175.00	.15000	81.000	.4930-01	.4040-01	.4900-01	.1194-02	.9856-03	.1194-02	.7140	5.145	539.2
406	175.00	.16500	79.000	.2090-01	.1720-01	.2090-01	.5083-03	.4199-03	.5083-03	.3050	2.274	537.1
406	175.00	.17500	78.000	.2950-01	.2440-01	.2950-01	.7194-03	.5942-03	.7194-03	.4320	3.111	537.7
405	180.00	.10000-01	59.000	.1076	.8870-01	.1076	.2628-02	.2166-02	.2628-02	1.557	11.55	545.0
405	180.00	.25000-01	60.000	.2840-01	.2350-01	.2840-01	.6944-03	.5730-03	.6944-03	.4140	2.984	540.5
405	180.00	.50000-01	61.000	.1370-01	.1130-01	.1370-01	.3355-03	.2770-03	.3355-03	.2010	1.281	538.9
405	180.00	.75000-01	62.000	.1110-01	.9200-02	.1110-01	.2715-03	.2243-03	.2715-03	.1630	1.039	537.9
405	180.00	.10000+00	63.000	.1550-01	.1280-01	.1550-01	.3780-03	.3122-03	.3780-03	.2270	1.490	537.9
405	180.00	.12500	64.000	.2200-01	.1820-01	.2200-01	.5380-03	.4444-03	.5380-03	.3230	2.255	537.4
405	180.00	.15000	65.000	.3150-01	.2600-01	.3150-01	.7699-03	.6359-03	.7699-03	.4620	3.228	537.2
405	180.00	.16000	66.000	.7600-01	.6280-01	.7600-01	.1857-02	.1532-02	.1857-02	1.109	6.191	539.9
405	180.00	.17000	67.000	.9380-01	.7740-01	.9380-01	.2291-02	.1890-02	.2291-02	1.365	7.609	541.7
405	180.00	.20000	69.000	.1970-01	.1630-01	.1970-01	.4812-03	.3977-03	.4812-03	.2900	1.800	535.6
405	180.00	.40100	72.000	.3100-02	.2600-02	.3100-02	.7627-04	.6307-04	.7627-04	.4600-01	.3930	533.5
405	180.00	.50000	73.000	.3900-02	.3200-02	.3900-02	.9454-04	.7818-04	.9454-04	.5700-01	.4880	533.5
405	180.00	.60100	74.000	.5100-02	.4300-02	.5100-02	.1257-03	.1040-03	.1257-03	.7600-01	.6270	533.6
405	180.00	.70100	75.000	.3600-02	.3000-02	.3600-02	.8781-04	.7264-04	.8781-04	.5300-01	.4260	532.3

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B42)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = -7.000 SPOBRK = 40.00  
BOFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAH DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
414	7.980	1.979	40.09	.0000	180.0	430.6	.4500-01	1302.	94.80	1.998	3807.	.3968-04
415	7.980	1.965	40.12	.0000	180.0	429.6	.4500-01	1307.	95.10	1.995	3814.	.3946-04
416	7.980	1.958	40.10	.0000	180.0	429.1	.4500-01	1309.	95.30	1.991	3816.	.3934-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
414	.7632-07	.3473-01	0.0175
415	.7659-07	.3472-01	.2894-01
416	.7669-07	.3470-01	.2903-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(GTO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(14H) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TH DEG. R
414	.00000	.00000	1.0000	.6070	.4979	.5419	.2108-01	.1729-01	.1882-01	12.53	68.60	577.6
414	.00000	.50000-02	2.0000	.7025	.5737	.5737	.2438-01	.1992-01	.1992-01	14.15	96.20	591.7
414	.00000	.10000-01	3.0000	.6351	.5197	.5259	.2205-01	.1805-01	.1826-01	12.94	85.59	585.1
414	.00000	.20000-01	4.0000	.4368	.3598	.3741	.1517-01	.1250-01	.1299-01	9.230	50.91	563.4
414	.00000	.30000-01	5.0000	.3403	.2807	.2965	.1182-01	.9747-02	.1029-01	7.242	40.03	559.1
414	.00000	.40000-01	6.0000	.3087	.2548	.2720	.1072-01	.8847-02	.9446-02	6.597	36.51	556.4
414	.00000	.50000-01	7.0000	.2690	.2214	.2386	.9340-02	.7687-02	.8287-02	5.658	37.77	566.1
414	.00000	.60000-01	8.0000	.2803	.2310	.2505	.9734-02	.8021-02	.8698-02	5.935	37.43	562.2
414	.00000	.70000-01	9.0000	.2446	.2013	.2198	.8493-02	.6991-02	.7634-02	5.148	35.45	565.7
414	.00000	.80000-01	10.0000	.2032	.1675	.1837	.7057-02	.5816-02	.6381-02	4.307	29.72	561.6
414	.00000	.90000-01	11.0000	.1883	.1554	.1710	.6538-02	.5395-02	.5937-02	4.018	25.40	557.3
414	.00000	1.0000+00	12.0000	.1774	.1463	.1616	.6158-02	.5082-02	.5612-02	3.783	22.62	557.6
414	.00000	.12000	14.0000	.1531	.1348	.1495	.5665-02	.4680-02	.5191-02	3.504	19.42	553.4
414	.00000	.13000	15.0000	.1563	.1290	.1434	.5426-02	.4481-02	.4979-02	3.349	19.53	554.6
414	.00000	.14000	16.0000	.1461	.1206	.1342	.5074-02	.4189-02	.4661-02	3.128	19.80	555.4
414	.00000	.16000	18.0000	.1480	.1221	.1362	.5138-02	.4240-02	.4728-02	3.157	19.40	557.4
414	.00000	.17000	19.0000	.1510	.1246	.1391	.5244-02	.4326-02	.4831-02	3.217	20.33	558.4



(RV1842)

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 75

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
414	.00000	.18000	20.000	.1506	.1242	.1389	.5231-02	.4314-02	.4823-02	3.205	20.25	559.1
414	.00000	.19000	21.000	.1416	.1169	.1308	.4918-02	.4060-02	.4542-02	3.030	19.17	555.8
414	.00000	.20000	22.000	.1429	.1178	.1321	.4961-02	.4092-02	.4586-02	3.042	19.22	558.7
414	.00000	.22500	23.000	.1337	.1103	.1239	.4642-02	.3830-02	.4302-02	2.852	18.03	557.5
414	.00000	.25000	801.00	.1312	.1083	.1218	.4557-02	.3760-02	.4231-02	2.797	17.68	559.1
414	.00000	.30000	802.00	.1212	.1000+00	.1125	.4210-02	.3472-02	.3907-02	2.580	16.30	559.1
414	.00000	.35000	803.00	.1209	.9950-01	.1121	.4197-02	.3457-02	.3894-02	2.552	16.08	563.8
414	.00000	.40000	804.00	.1212	.9980-01	.1124	.4209-02	.3466-02	.3905-02	2.558	16.60	564.0
414	.00000	.45000	805.00	.1118	.9200-01	.1037	.3883-02	.3194-02	.3601-02	2.345	15.64	567.9
414	.00000	.50000	806.00	.1002	.8240-01	.9290-01	.3478-02	.2860-02	.3225-02	2.097	14.42	569.0
414	.00000	.55000	807.00	.9390-01	.7710-01	.8700-01	.3261-02	.2679-02	.3022-02	1.954	14.30	572.8
414	.00000	.60000	808.00	.8710-01	.7150-01	.8070-01	.3024-02	.2484-02	.2802-02	1.811	13.25	573.0
414	.00000	.65000	809.00	.8620-01	.7070-01	.7980-01	.2993-02	.2456-02	.2773-02	1.782	13.02	575.7
414	.00000	.70000	810.00	.8870-01	.7270-01	.8210-01	.3079-02	.2526-02	.2852-02	1.829	13.81	578.0
414	.00000	.75000	811.00	.1038	.8520-01	.9620-01	.3606-02	.2957-02	.3339-02	2.139	15.61	578.7
414	.00000	.80000	812.00	.1189	.9750-01	.1101	.4127-02	.3385-02	.3822-02	2.452	17.90	577.8
414	.00000	.85000	813.00	.1281	.1051	.1199	.4448-02	.3648-02	.4165-02	2.641	19.94	578.2
414	.00000	.90000	814.00	.1381	.1134	.1296	.4796-02	.3936-02	.4502-02	2.861	20.24	575.4
414	.00000	.92500	815.00	.1240	.1018	.1167	.4306-02	.3536-02	.4054-02	2.575	20.94	573.7
414	.00000	.95000	816.00	.1335	.1095	.1259	.4635-02	.3802-02	.4373-02	2.753	22.33	577.9
414	.00000	.97500	817.00	.1458	.1194	.1378	.5062-02	.4145-02	.4787-02	2.979	24.11	583.3
414	.00000	1.0150	818.00	.4401	.3565	.4162	.1528-01	.1238-01	.1445-01	8.486	60.79	616.6
414	.00000	1.0300	819.00	.4647	.3769	.4397	.1614-01	.1309-01	.1527-01	9.022	64.75	612.8
414	.00000	1.0600	821.00	.3344	.2711	.3163	.1161-01	.9415-02	.1098-01	6.482	52.65	613.6
414	10.000	.15000	89.000	.3400-02	.2800-02	.3400-02	.1181-03	.9798-04	.1181-03	.7500-01	.4520	538.7
414	11.500	.20000	91.000	.8700-02	.7200-02	.8700-02	.3011-03	.2498-03	.3011-03	.1910	1.185	538.1
414	14.000	.50000-01	90.000	.1300-01	.1080-01	.1300-01	.4518-03	.3746-03	.4518-03	.2860	1.724	539.6
414	17.500	.40000	823.00	.1141	.9280-01	.1058	.3963-02	.3257-02	.3674-02	2.381	18.69	571.1
414	.50000	.50000	824.00	.1058	.8580-01	.9800-01	.3672-02	.3015-02	.3402-02	2.192	17.17	575.1
414	17.500	.60000	825.00	.7083-01	.5810-01	.6560-01	.2458-02	.2016-02	.2276-02	1.462	12.81	577.2
414	17.500	.70000	826.00	.9350-01	.7670-01	.8660-01	.3248-02	.2663-02	.3008-02	1.923	14.03	579.7
414	17.500	.80000	827.00	.1141	.9360-01	.1057	.3962-02	.3250-02	.3670-02	2.355	17.20	577.5
414	17.500	.90000	828.00	.1243	.1020	.1167	.4316-02	.3543-02	.4052-02	2.574	20.16	575.4
415	20.000	.10000+00	103.00	.2535	.2094	.2535	.8800-02	.7268-02	.8800-02	5.457	31.80	556.0
415	20.000	.15000	104.00	.1683	.1391	.1683	.5843-02	.4829-02	.5843-02	3.637	23.04	553.7
415	20.000	.92500	971.00	.1373	.1125	.1373	.4766-02	.3908-02	.4766-02	2.826	20.62	579.0
414	20.000	.95000	975.00	.1243	.1023	.1243	.4317-02	.3552-02	.4317-02	2.611	19.17	567.0
414	20.000	.97500	980.00	.1402	.1154	.1402	.4869-02	.4007-02	.4869-02	2.948	21.64	566.5
415	22.000	.50000-01	105.00	.2291	.1896	.2291	.7954-02	.6582-02	.7954-02	4.989	27.72	548.9
414	24.000	.20000	93.000	.1100-01	.9100-02	.1100-01	.3825-03	.3173-03	.3825-03	.2420	1.504	538.3
415	24.500	.10000+00	106.00	.2640	.2179	.2640	.9164-02	.7564-02	.9164-02	5.662	35.78	558.3
415	25.500	.15000	107.00	.1830	.1509	.1830	.6353-02	.5239-02	.6353-02	3.905	34.50	561.4
414	30.000	.92500	970.00	.1367	.1124	.1367	.4748-02	.3902-02	.4748-02	2.851	20.88	571.4

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1842)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(11AW) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWDT DEG. R /SEC	TW DEG. R
414	30.000	.95000	974.00	.1022	.8420-01	.1022	.3550-02	.2924-02	.3550-02	2.160	15.88	563.5
414	30.000	.97500	979.00	.1122	.9240-01	.1122	.3896-02	.3209-02	.3896-02	2.367	17.40	564.4
415	31.500	.20000	108.00	.1256	.1036	.1256	.4359-02	.3597-02	.4359-02	2.690	27.03	559.1
414	32.000	.40000	831.00	.1345	.1107	.1248	.4671-02	.3944-02	.4332-02	2.828	19.46	566.5
414	32.000	.50000	832.00	.1120	.9200-01	.1038	.3889-02	.3194-02	.3604-02	2.327	18.47	573.6
414	32.000	.60000	833.00	.1009	.8270-01	.9340-01	.3504-02	.2873-02	.3244-02	2.078	13.78	578.8
414	32.000	.70000	834.00	.9750-01	.7980-01	.9020-01	.3384-02	.2770-02	.3132-02	1.989	14.98	584.1
414	32.000	.80000	835.00	.1037	.8510-01	.9600-01	.3602-02	.2953-02	.3335-02	2.137	15.09	578.6
414	32.000	.90000	836.00	.1202	.9870-01	.1129	.4175-02	.3429-02	.3920-02	2.498	18.28	573.5
414	32.000	.95000	837.00	.1455	.1195	.1374	.5053-02	.4150-02	.4770-02	3.024	22.89	573.4
414	32.000	.97500	838.00	.1484	.1217	.1404	.5154-02	.4226-02	.4876-02	3.058	23.91	578.6
414	32.000	.99000	839.00	.3938	.3177	.3563	.1367-01	.1103-01	.1237-01	7.428	57.71	628.6
414	32.000	1.0300	840.00	.4490	.3631	.4068	.1559-01	.1261-01	.1413-01	8.578	64.52	621.7
414	32.000	1.0450	841.00	.4184	.3388	.3793	.1453-01	.1177-01	.1317-01	8.051	59.63	617.8
415	35.000	.50000-01	115.00	.1245	.1031	.1245	.4320-02	.3580-02	.4320-02	2.728	17.35	544.6
415	35.000	.20000	110.00	.1347	.1110	.1347	.4675-02	.3853-02	.4675-02	2.856	28.74	546.0
415	39.000	.10000-00	116.00	.1031	.8540-01	.1031	.3578-02	.2953-02	.3578-02	2.255	14.34	541.9
415	40.000	.76000-01	121.00	.7170-01	.5950-01	.7170-01	.2490-02	.2064-02	.2490-02	1.579	10.06	562.9
415	40.000	.15000	111.00	.2097	.1729	.2097	.7281-02	.6002-02	.7281-02	4.465	32.84	562.9
415	42.500	.50000-01	127.00	.8760-01	.7260-01	.8760-01	.4259-02	.3543-02	.4259-02	2.632	29.02	564.0
415	45.000	.92500	969.00	.2470-01	.2040-01	.9120-01	.3040-02	.2520-02	.3040-02	1.924	13.00	543.2
414	45.000	.95000	973.00	.2000-03	.1000-03	.2000-03	.3166-02	.2622-02	.3166-02	1.997	11.70	545.2
414	45.000	.97500	978.00	.2200-02	.1800-02	.2200-02	.8562-03	.7097-03	.8562-03	.5400	4.016	541.2
415	51.000	.20000	118.00	.4670-01	.3870-01	.4670-01	.1622-02	.1345-02	.1622-02	1.027	6.543	537.0
415	60.000	.50000-01	131.00	.2160-01	.1790-01	.2160-01	.7483-03	.6213-03	.7483-03	4.780	3.240	537.0
415	67.500	.20000	128.00	.2760-01	.2290-01	.2760-01	.9579-03	.7943-03	.9579-03	.6080	4.521	541.4
414	75.000	.97500	977.00	.2100-02	.1700-02	.2100-02	.7174-04	.5952-04	.7174-04	.4600-01	4.521	541.4
414	85.000	.97500	976.00	.2100-02	.1800-02	.2100-02	.7368-04	.6114-04	.7368-04	.4700-01	3.490	536.7
415	105.00	.40100	135.00	.2290-01	.1900-01	.2290-01	.7963-03	.6802-03	.7963-03	.5050	3.898	542.3
415	105.00	.50100	136.00	.2730-01	.2260-01	.2730-01	.9468-03	.7845-03	.9468-03	.5980	4.758	544.4
415	105.00	.60100	137.00	.2200-02	.1800-02	.2200-02	.3100-03	.2570-03	.3100-03	.1980	1.564	542.4
415	105.00	.70100	138.00	.2200-02	.1800-02	.2200-02	.7531-04	.6248-04	.7531-04	.4800-01	3.820	539.9
415	105.00	.80000	139.00	.1300-02	.1100-02	.1300-02	.4506-04	.3741-04	.4506-04	.2900-01	.2300	537.1
415	113.00	.60100	145.00	.1810-01	.1500-01	.1810-01	.6284-03	.5209-03	.6284-03	.3980	3.170	542.5
415	116.00	.80500	147.00	.1480-01	.1230-01	.1480-01	.5135-03	.4257-03	.5135-03	.3250	2.589	542.8
415	116.00	.75100	148.00	.2400-02	.2000-02	.2400-02	.8395-04	.6966-04	.8395-04	.5400-01	.4270	538.8
415	120.00	.10000-00	132.00	.5000-02	.4200-02	.5000-02	.1738-03	.1443-03	.1738-03	.1110	.6720	536.8
415	120.00	.80500	247.00	.2100-02	.1700-02	.2100-02	.7143-04	.5934-04	.7143-04	.4600-01	.3790	534.4
415	120.00	.82900	248.00	.4800-02	.4000-02	.4800-02	.1664-03	.1382-03	.1664-03	.1070	.8810	534.9
415	120.00	.66200	249.00	.6200-02	.5200-02	.6200-02	.2159-03	.1794-03	.2159-03	.1390	1.015	533.9
415	130.00	.80500	253.00	.2400-02	.2000-02	.2400-02	.8173-04	.6791-04	.8173-04	.5200-01	.4200	534.2

(RV1842)

## AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/R F12SEC	H(10) BTU/R F12SEC	H(1AM) BTU/R F12SEC	QDOT BTU/ F12SEC	DTWDT DEG. R /SEC	TW DEG. R
415	130.00	.82900	254.00	.5100-02	.4200-02	.5100-02	.1751-03	.1463-03	.1761-03	.1130	.8780	533.9
415	130.00	.86200	255.00	.7100-02	.5900-02	.7100-02	.2457-03	.2042-03	.2457-03	.1580	1.306	533.1
415	135.00	.40100	142.00	.1700-02	.1400-02	.1700-02	.5775-04	.4795-04	.5775-04	.3700-01	.2860	536.6
415	135.00	.50100	143.00	.1700-02	.1400-02	.1700-02	.5847-04	.4808-04	.5847-04	.3700-01	.3080	537.5
415	135.00	.60100	144.00	.1700-02	.1400-02	.1700-02	.5792-04	.4808-04	.5792-04	.3700-01	.2860	538.0
415	135.00	.70100	145.00	.4100-02	.3400-02	.4100-02	.1413-03	.1173-03	.1413-03	.9000-01	.7220	537.0
415	140.00	.18000	85.000	.4600-02	.3800-02	.4600-02	.1584-03	.1315-03	.1584-03	.1010	.7810	536.5
415	140.00	.19500	87.000	.1060-01	.8800-02	.1060-01	.3686-03	.3060-03	.3686-03	.2350	1.812	538.3
415	145.00	.80500	259.00	.3200-02	.2700-02	.3200-02	.1128-03	.9371-04	.1128-03	.7200-01	.5620	533.9
416	145.00	.82900	260.00	.4600-02	.3800-02	.4600-02	.1580-03	.1313-03	.1580-03	.1010	.7640	535.3
415	150.00	.86200	261.00	.3100-02	.2600-02	.3100-02	.1088-03	.9042-04	.1088-03	.7000-01	.5800	533.2
415	150.00	.16000	86.000	.1570-01	.1300-01	.1570-01	.5439-03	.4514-03	.5439-03	.3470	2.582	538.7
415	150.00	.18000	84.000	.1520-01	.1260-01	.1520-01	.5299-03	.4350-03	.5299-03	.3370	2.513	538.3
415	150.00	.19000	82.000	.2000-03	.2000-03	.2000-03	.6834-05	.5679-05	.6834-05	.4990	3.716	534.1
415	155.00	.16000	80.000	.2260-01	.1880-01	.2260-01	.7846-03	.6510-03	.7846-03	.4990	3.716	539.7
415	155.00	.18000	83.000	.1000-03	.0000	.1000-03	.1846-05	.1534-05	.1846-05	.1000-02	.9000-02	533.6
415	160.00	.18000	77.000	.1370-01	.1140-01	.1370-01	.4753-03	.3945-03	.4753-03	.3030	2.419	538.4
415	175.00	.15000	81.000	.5830-01	.4890-01	.5830-01	.2046-02	.1696-02	.2046-02	1.296	9.317	542.9
415	175.00	.16500	79.000	.1950-01	.1620-01	.1950-01	.6759-03	.5608-03	.6759-03	.4300	3.204	539.4
415	175.00	.17500	78.000	.3540-01	.2930-01	.3540-01	.1228-02	.1018-02	.1228-02	.7800	5.612	541.1
414	180.00	.10000-01	59.000	.1020	.8440-01	.1020	.3542-02	.2932-02	.3542-02	2.218	16.46	545.5
414	180.00	.25000-01	60.000	.2660-01	.2200-01	.2660-01	.9223-03	.7846-03	.9223-03	.5820	4.192	540.5
414	180.00	.50000-01	61.000	.1380-01	.1140-01	.1380-01	.4785-03	.3957-03	.4785-03	.3020	1.927	540.3
414	180.00	.75000-01	62.000	.1260-01	.1050-01	.1260-01	.4389-03	.3638-03	.4389-03	.2770	1.766	540.7
414	180.00	.10000+00	63.000	.2100-01	.1740-01	.2100-01	.7291-03	.6043-03	.7291-03	.4600	3.016	541.4
414	180.00	.12500	64.000	.2630-01	.2180-01	.2630-01	.9149-03	.7582-03	.9149-03	.5760	4.018	541.8
414	180.00	.15000	65.000	.3750-01	.3110-01	.3750-01	.1305-02	.1081-02	.1305-02	.8220	5.727	542.1
414	180.00	.16000	66.000	.9720-01	.8040-01	.9720-01	.3374-02	.2792-02	.3374-02	2.108	11.73	547.0
414	180.00	.17000	67.000	.1080	.8930-01	.1080	.7354-03	.6098-03	.7354-03	2.338	13.00	548.2
414	180.00	.20000	69.000	.2120-01	.1760-01	.2120-01	.7354-03	.6098-03	.7354-03	2.883	2.883	539.8
414	180.00	.40100	72.000	.4700-02	.3900-02	.4700-02	.1633-03	.1355-03	.1633-03	.1040	.8820	537.9
414	180.00	.50000	73.000	.5800-02	.4800-02	.5800-02	.2025-03	.1680-03	.2025-03	.1280	1.094	537.7
414	180.00	.60100	74.000	.5300-02	.4400-02	.5300-02	.1825-03	.1514-03	.1825-03	.1160	.9530	538.1
414	180.00	.70100	75.000	.4900-02	.4100-02	.4900-02	.1704-03	.1414-03	.1704-03	.1080	.8650	536.5

AEDC VKF V41B-57A (OH-498) COLLATION DECK  
OH-498 (AEDC V41B-57A) ORJITER FUSELAGE

DATE 25 AUG 76

FUSELAGE

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = -7.000 SPOBRK = 40.00  
BOFLAP = 15.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAH DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
423	8.000	3.726	40.07	.0000	180.0	860.0	.8800-01	1348.	97.70	3.946	3875.	.7564-04
424	8.000	3.751	40.11	.0000	180.0	860.7	.8800-01	1343.	97.30	3.950	3867.	.7600-04
425	8.000	3.746	40.09	.0000	180.0	859.1	.8800-01	1343.	97.30	3.942	3867.	.7588-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
423	.7867-07	.4910-01	0.0175
424	.7836-07	.4908-01	.2104-01
425	.7833-07	.4904-01	.2098-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H(H9T) BTU/ R FT2SEC	H(HTO) BTU/ R FT2SEC	H(HAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
423	.00000	.00000	1.0000	.5964	.4896	.2928-01	.2404-01	.2615-01	18.11	98.33	595.1
423	.00000	.5000-02	2.0000	.6972	.5688	.3423-01	.2793-01	.2793-01	20.45	137.4	616.2
423	.00000	.1000-01	3.0000	.6230	.5097	.3059-01	.2502-01	.2532-01	18.55	121.4	607.2
423	.00000	.2000-01	4.0000	.4370	.3608	.2146-01	.1771-01	.1841-01	13.69	75.08	575.3
423	.00000	.3000-01	5.0000	.3355	.2776	.1647-01	.1363-01	.1438-01	10.65	58.61	567.3
423	.00000	.4000-01	6.0000	.2860	.2369	.1404-01	.1163-01	.1241-01	9.143	50.45	562.5
423	.00000	.5000-01	7.0000	.2743	.2438	.1347-01	.1111-01	.1197-01	8.560	56.81	578.1
423	.00000	.6000-01	8.0000	.2800	.2313	.1375-01	.1136-01	.1230-01	8.817	55.33	572.2
423	.00000	.7000-01	9.0000	.2458	.2028	.1207-01	.9558-02	.1088-01	7.675	53.54	577.6
423	.00000	.8000-01	10.000	.2092	.1729	.1027-01	.8468-02	.9300-02	6.598	45.32	571.1
423	.00000	.9000-01	11.000	.1907	.1579	.9365-02	.7754-02	.8519-02	6.076	38.27	564.8
423	.00000	.10000+00	12.000	.1754	.1452	.8612-02	.7130-02	.7861-02	5.585	33.27	565.1
423	.00000	.12000	14.000	.1625	.1347	.7978-02	.6614-02	.7323-02	5.219	28.84	559.4
423	.00000	.13000	15.000	.1528	.1266	.7504-02	.6218-02	.6897-02	4.894	28.45	561.3
423	.00000	.14000	16.000	.1423	.1179	.6989-02	.5789-02	.6430-02	4.547	28.67	563.0
423	.00000	.16000	18.000	.1537	.1272	.7545-02	.6244-02	.6953-02	4.881	29.87	566.6
423	.00000	.17000	19.000	.1519	.1256	.7458-02	.6168-02	.6879-02	4.808	30.22	568.9

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B42)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAX)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAX) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
423	.00000	.18000	20.000	.1485	.1229	.1372	.7297-02	.6032-02	.6735-02	4.695	29.50	570.1
423	.00000	.19000	21.000	.1419	.1174	.1312	.6965-02	.5765-02	.6440-02	4.511	28.40	565.9
423	.00000	.20000	22.000	.1422	.1175	.1315	.6980-02	.5771-02	.6459-02	4.493	28.23	569.9
423	.00000	.22500	23.000	.1326	.1097	.1230	.6511-02	.5385-02	.6042-02	4.201	26.42	568.4
423	.00000	.25000	801.00	.1308	.1082	.1215	.6423-02	.5310-02	.5958-02	4.135	25.98	569.7
423	.00000	.30000	802.00	.1206	.9970-0	.1121	.5923-02	.4695-02	.5503-02	3.801	23.86	571.9
423	.00000	.35000	803.00	.1260	.1056	.1189	.6265-02	.5185-02	.5836-02	3.989	24.95	579.0
423	.00000	.40000	804.00	.1222	.1007	.1134	.5937-02	.4943-02	.5566-02	3.792	24.39	581.3
423	.00000	.45000	805.00	.1088	.8660-01	.1013	.5344-02	.4401-02	.4957-02	3.363	22.25	584.3
423	.00000	.50000	806.00	.1055	.8580-01	.9783-01	.5409-02	.4442-02	.5012-02	3.244	22.10	587.4
423	.00000	.55000	807.00	.1102	.9050-01	.1021	.5446-02	.5289-02	.5971-02	3.974	28.74	597.1
423	.00000	.60000	808.00	.1313	.1077	.1215	.6446-02	.5289-02	.5971-02	3.974	28.74	597.1
423	.00000	.65000	809.00	.2054	.1677	.1899	.1009-01	.8235-02	.9324-02	6.048	43.38	614.0
423	.00000	.70000	810.00	.3364	.2489	.2827	.1504-01	.1223-01	.1388-01	8.779	64.64	630.0
423	.00000	.75000	811.00	.3574	.2899	.3295	.1755-01	.1423-01	.1618-01	10.17	72.21	634.2
423	.00000	.80000	812.00	.3513	.2930	.3331	.1774-01	.1439-01	.1635-01	10.27	72.95	634.5
423	.00000	.85000	813.00	.3433	.2785	.3203	.1686-01	.1357-01	.1572-01	9.765	71.74	634.3
423	.00000	.90000	814.00	.3265	.2655	.3055	.1603-01	.1303-01	.1500-01	9.401	64.83	627.2
423	.00000	.92500	815.00	.2831	.2306	.2658	.1390-01	.1132-01	.1305-01	8.243	65.48	620.5
423	.00000	.95000	816.00	.2899	.2347	.2718	.1418-01	.1152-01	.1334-01	8.293	65.61	628.8
423	.00000	.97500	817.00	.3067	.2485	.2891	.1506-01	.1220-01	.1420-01	8.669	68.29	637.9
423	.00000	1.0150	818.00	.4682	.3764	.4419	.2299-01	.1848-01	.2169-01	12.72	89.21	660.2
423	.00000	1.0300	819.00	.4417	.3562	.4172	.2169-01	.1749-01	.2049-01	12.18	85.78	651.9
423	.00000	1.0600	821.00	.3318	.2673	.3133	.1229-01	.1312-01	.1538-01	9.105	72.50	634.7
423	.00000	.15000	89.000	.5700-02	.4800-02	.5700-02	.2805-03	.2339-03	.2805-03	1.900	1.147	536.9
423	.00000	.20000	91.000	.8400-02	.7000-02	.8400-02	.4128-03	.3442-03	.4128-03	2.790	1.736	536.6
423	.00000-01	.50000-01	90.000	.8900-02	.7500-02	.8900-02	.4393-03	.3684-03	.4393-03	2.980	1.798	536.3
423	.40000	.40000	823.00	.1103	.9070-01	.1023	.5418-02	.4453-02	.5022-02	3.372	26.21	591.1
423	.50000	.50000	824.00	.1061	.8700-01	.9830-01	.5210-02	.4274-02	.4820-02	3.207	24.84	598.1
423	.60000	.60000	825.00	.1000-00	.8190-01	.9260-01	.4909-02	.4022-02	.4545-02	3.002	25.98	602.2
423	.70000	.70000	826.00	.3557	.2973	.3390	.1801-01	.1460-01	.1660-01	10.39	73.72	636.5
423	.80000	.80000	827.00	.3537	.2871	.3262	.1737-01	.1410-01	.1602-01	10.10	71.85	631.7
423	.90000	.90000	828.00	.2832	.2304	.265	.1331-01	.1131-01	.1301-01	8.173	62.44	625.9
424	.00000+00	.10000+00	103.00	.2516	.2083	.2516	.8216-02	.6806-02	.8216-02	5.326	46.24	563.9
424	.20.000	.15000	104.00	.1674	.1387	.1674	.9408-02	.7600-02	.9408-02	5.644	40.49	560.5
423	.20.000	.92500	971.00	.1916	.1565	.1916	.9572-02	.7600-02	.9572-02	5.931	42.83	600.3
423	.20.000	.95000	975.00	.1970	.1615	.1970	.9101-02	.7600-02	.9101-02	5.620	40.67	596.0
423	.20.000	.97500	980.00	.1854	.1521	.1854	.9101-02	.7600-02	.9101-02	5.566	41.94	593.5
424	.22.000	.50000-01	105.00	.2352	.1952	.2352	.6552-03	.5453-03	.6552-03	7.4430	2.753	537.1
423	.20.000	.20000	93.000	.1330-01	.1110-01	.1330-01	.6552-03	.5453-03	.6552-03	7.4430	2.753	537.1
424	.24.500	.10000+00	106.00	.2639	.2183	.2639	.1296-01	.1011-01	.1296-01	8.315	52.32	567.0
424	.25.500	.15000	107.00	.1815	.1499	.1815	.8914-02	.7600-02	.8914-02	5.669	49.79	572.8
423	.30.000	.92500	970.00	.1744	.1431	.1744	.8562-02	.7600-02	.8562-02	5.284	38.22	596.5

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AECG VKF V418-57A (OH-49B) COLLATION DECK

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OH-49B (AECG V418-57A) ORBITER FUSELAGE

(RV1842)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAL)	H(9TO) BTU/ R F12SEC	H(1TO) BTU/ R F12SEC	H(1AH) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWOT DEG. R /SEC	TW DEG. R
423	30.000	.95000	974.00	.1708	.1402	.1708	.8388-02	.6885-02	.8388-02	5.181	37.49	595.9
423	30.000	.97500	979.00	.1589	.1306	.1589	.7800-02	.6411-02	.7800-02	4.856	35.22	591.1
424	31.500	.20000	108.00	.1270	.1050	.1270	.6235-02	.5152-02	.6235-02	3.984	39.82	569.9
423	32.000	.40000	831.00	.1355	.1116	.1257	.6652-02	.5480-02	.6172-02	4.193	28.62	583.3
423	32.000	.50000	832.00	.1123	.9220-01	.1041	.5515-02	.4528-02	.5110-02	3.411	23.89	595.1
423	32.000	.60000	833.00	.1295	.1061	.1199	.6361-02	.5210-02	.5838-02	3.881	25.44	603.4
423	32.000	.70000	834.00	.2044	.1664	.1887	.1003-01	.8171-02	.8266-02	5.937	43.88	621.9
423	32.000	.80000	835.00	.3275	.2663	.3022	.1608-01	.1307-01	.1484-01	9.420	64.95	627.8
423	32.000	.90000	836.00	.2361	.2411	.2772	.1454-01	.1184-01	.1361-01	8.599	61.43	622.1
423	32.000	.95000	837.00	.2859	.2333	.2694	.1409-01	.1145-01	.1323-01	8.279	62.22	615.8
423	32.000	.97500	838.00	.2870	.2334	.2708	.2372-01	.1889-01	.2133-01	12.52	94.66	685.7
423	32.000	1.0150	839.00	.4830	.3848	.4344	.2154-01	.1728-01	.1944-01	11.78	86.66	667.0
423	32.000	1.0300	840.00	.4389	.3520	.3860	.2100-01	.1687-01	.1896-01	11.56	83.76	663.1
424	32.000	1.0450	841.00	.4277	.3435	.3662	.6121-02	.5072-02	.6101-02	4.039	25.67	545.9
424	35.000	.50000-01	115.00	.1243	.1033	.1243	.6652-02	.5488-02	.6652-02	3.455	21.99	544.5
424	35.000	.20000	110.00	.1355	.1118	.1355	.5202-02	.4327-02	.5202-02	2.326	14.82	542.3
424	39.000	.10000+00	116.00	.1060	.8810-01	.1060	.3489-02	.2904-02	.3489-02	6.691	48.98	572.5
424	40.000	.76000-01	121.00	.7110-01	.5920-01	.7110-01	.1052-01	.8693-02	.1052-01	2.865	19.35	543.4
424	40.000	.15000	111.00	.2142	.1769	.2142	.6302-02	.5199-02	.6302-02	2.954	17.33	542.5
424	40.000	.20000	112.00	.1264	.1059	.1264	.4307-02	.3594-02	.4307-02	1.657	12.27	550.0
424	42.500	.50000-01	127.00	.8770-01	.7300-01	.8770-01	.2474-02	.2076-02	.2474-02	1.580	1.177	539.3
424	45.000	.15000	117.00	.9030-01	.7520-01	.9030-01	.1244-03	.1036-03	.1244-03	1.516	9.566	540.2
423	45.000	.92500	959.00	.5090-01	.4230-01	.5090-01	.2267-02	.1888-02	.2267-02	6.657	4.535	538.9
423	45.000	.95000	973.00	.2500-02	.2100-02	.2500-02	.8271-03	.6271-03	.8271-03	9.050	6.737	534.7
423	45.000	.97500	978.00	.4800-02	.4000-02	.4800-02	.1125-02	.1125-02	.1125-02	1.650	1.226	539.8
424	51.000	.118.00	118.00	.4620-01	.3850-01	.4620-01	.2037-03	.2037-03	.2037-03	1.190	8.860	539.3
424	60.000	.50000-01	131.00	.2020-01	.1690-01	.2020-01	.8802-03	.6802-03	.8802-03	7.050	5.445	542.1
424	67.500	.20000	128.00	.2750-01	.2290-01	.2750-01	.1471-03	.1471-03	.1471-03	3.940	3.131	546.4
423	75.000	.97500	977.00	.5000-02	.4100-02	.5000-02	.1058-02	.1058-02	.1058-02	8.000-01	6.400	544.8
424	105.00	.40100	135.00	.3600-02	.3000-02	.3600-02	.4932-03	.4932-03	.4932-03	1.190	7.423	546.4
424	105.00	.50100	136.00	.2150-01	.1790-01	.2150-01	.1003-03	.1003-03	.1003-03	3.940	3.131	544.8
424	105.00	.60100	137.00	.2870-01	.2390-01	.2870-01	.1205-03	.1205-03	.1205-03	8.000-01	6.400	544.8
424	105.00	.70100	138.00	.1210-01	.1000-01	.1210-01	.1037-03	.1037-03	.1037-03	1.018	8.086	547.3
424	105.00	.80000	139.00	.2500-02	.2000-02	.2500-02	.1540-02	.1540-02	.1540-02	1.018	8.086	547.3
424	113.00	.60100	146.00	.3140-01	.2610-01	.3140-01	.1189-02	.1189-02	.1189-02	6.255	546.6	546.6
424	116.00	.50100	147.00	.2420-01	.2010-01	.2420-01	.1020-03	.1020-03	.1020-03	6.800-01	544.0	544.0
424	116.00	.75100	148.00	.2100-02	.1700-02	.2100-02	.1812-03	.1812-03	.1812-03	1.470	8.890	532.9
424	123.00	.10000+00	132.00	.4400-02	.3700-02	.4400-02	.1360-03	.1360-03	.1360-03	9.100-01	7.540	536.3
424	120.00	.80500	247.00	.2600-02	.2300-02	.2600-02	.2127-03	.2127-03	.2127-03	1.720	1.417	535.9
424	120.00	.82500	248.00	.5200-02	.4300-02	.5200-02	.3047-03	.3047-03	.3047-03	2.060	1.505	533.8
424	120.00	.86200	249.00	.6200-02	.5200-02	.6200-02	.1450-03	.1450-03	.1450-03	9.800-01	1.780	536.0
424	130.00	.80500	253.00	.3000-02	.2500-02	.3000-02						

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AEDC VKF V41B-57A (OH-498) COLLATION DECK  
OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(GTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAM) BTU/ R FT2SEC	QOOT BTU/ R FT2SEC	DTMOY DEG. R /SEC	TW DEG. R
424	130.00	.82900	254.00	.6500-02	.5500-02	.6800-02	.3227-03	.2690-03	.3227-03	.2170	1.686	535.1
424	130.00	.86200	255.00	.8300-02	.6900-02	.8300-02	.4071-03	.3395-03	.4071-03	.2750	2.272	533.4
424	135.00	.40100	142.00	.1500-02	.1200-02	.1500-02	.7265-04	.6058-04	.7265-04	.4900-01	.3800	535.0
424	135.00	.50100	143.00	.1500-02	.1300-02	.1500-02	.7563-04	.6303-04	.7563-04	.5100-01	.4190	536.7
424	135.00	.60100	144.00	.4300-02	.3600-02	.4300-02	.2112-03	.1760-03	.2112-03	.1420	1.099	537.3
424	135.00	.70100	145.00	.5700-02	.4700-02	.5700-02	.2794-03	.2328-03	.2794-03	.1880	1.498	537.4
424	140.00	.18000	85.000	.4400-02	.3700-02	.4400-02	.2153-03	.1795-03	.2153-03	.1450	1.119	535.4
424	140.00	.19500	87.000	.8100-02	.6800-02	.8100-02	.3995-03	.3331-03	.3995-03	.2890	2.077	535.0
424	145.00	.80500	259.00	.3600-02	.3000-02	.3600-02	.1779-03	.1483-03	.1779-03	.1200	.9290	535.1
425	145.00	.62300	260.00	.9200-02	.7700-02	.9200-02	.4512-03	.3767-03	.4512-03	.3070	2.317	528.7
425	145.00	.86200	261.00	.2700-02	.2300-02	.2700-02	.1329-03	.1110-03	.1329-03	.9000-01	.7460	530.3
424	150.00	.16000	86.000	.1030-01	.6500-02	.1030-01	.5060-03	.4218-03	.5060-03	.3410	2.540	535.6
424	150.00	.18000	84.000	.1610-01	.1340-01	.1610-01	.7907-03	.6590-03	.7907-03	.5310	3.951	535.6
424	150.00	.19000	82.000	.4000-03	.3000-03	.4000-03	.1746-04	.1456-04	.1746-04	.1200-01	.8900-01	532.8
424	150.00	.16000	80.000	.1500-01	.1250-01	.1500-01	.7386-03	.6156-03	.7386-03	.4960	3.701	536.6
424	155.00	.18000	83.000	.1000-03	.1000-03	.1000-03	.4085-05	.3409-05	.4085-05	.3000-02	.2100-01	532.4
424	160.00	.18000	77.000	.1470-01	.1220-01	.1470-01	.7213-03	.6011-03	.7213-03	.4840	3.866	537.4
424	175.00	.15000	81.000	.5650-01	.4700-01	.5650-01	.2772-02	.2306-02	.2772-02	.1845	13.26	543.2
424	175.00	.16500	79.000	.2230-01	.1860-01	.2230-01	.1094-02	.9116-03	.1094-02	.7340	5.465	538.2
424	175.00	.17500	78.000	.3700-01	.3080-01	.3700-01	.1818-02	.1514-02	.1818-02	1.216	8.753	540.1
423	180.00	.10000-01	59.000	.1014	.8430-01	.1014	.4979-02	.4141-02	.4979-02	3.318	24.60	547.1
423	180.00	.25000-01	60.000	.2460-01	.2050-01	.2460-01	.1209-02	.1007-02	.1209-02	.8150	5.875	539.0
423	180.00	.50000-01	61.000	.1250-01	.1040-01	.1250-01	.6116-03	.5099-03	.6116-03	.4130	2.639	537.8
423	180.00	.75000-01	62.000	.1480-01	.1230-01	.1480-01	.7274-03	.6063-03	.7274-03	.8910	3.133	538.7
423	180.00	.10000-00	63.000	.2580-01	.2150-01	.2580-01	.1267-02	.1056-02	.1267-02	.8530	5.598	540.4
423	180.00	.12500	64.000	.3050-01	.2540-01	.3050-01	.1496-02	.1246-02	.1496-02	1.005	7.009	541.5
423	180.00	.15000	65.000	.3520-01	.2930-01	.3520-01	.1726-02	.1438-02	.1726-02	1.160	8.088	541.4
423	180.00	.16000	66.000	.9050-01	.7520-01	.9050-01	.4443-02	.3692-02	.4443-02	2.944	16.34	550.8
423	180.00	.17000	67.000	.1174	.9760-01	.1174	.5765-02	.4791-02	.5765-02	3.824	21.23	550.4
423	180.00	.20000	69.000	.1670-01	.1390-01	.1670-01	.8217-03	.6848-03	.8217-03	5.550	3.441	538.7
423	180.00	.40100	72.000	.6600-02	.5500-02	.6600-02	.3220-03	.2685-03	.3220-03	.2180	1.857	537.0
423	180.00	.50000	73.000	.8400-02	.7000-02	.8400-02	.4128-03	.3442-03	.4128-03	.2790	2.377	537.6
423	180.00	.60100	74.000	.7000-02	.5800-02	.7000-02	.3430-03	.2859-03	.3430-03	.2320	1.911	537.6
423	180.00	.70100	75.000	.5400-02	.4500-02	.5400-02	.2649-03	.2209-03	.2649-03	.1790	1.433	536.5

AEDC VKF V41B-57A (OH-498) COLLATION DECK  
OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

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FUSELAGE

PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = -30.00 SPOBRK = 40.00  
BDFLAP = 15.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
450	7.900	.5299	19.99	.0000	180.0	109.5	1200-01	1281.	95.00	.5320	3773.	.1074-04
451	7.900	.5307	19.99	.0000	180.0	110.1	1200-01	1284.	95.30	.5340	3778.	.1077-04
452	7.900	.5299	20.00	.0000	180.0	110.1	1200-01	1286.	95.40	.5340	3780.	.1076-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	ST FR R =
450	.7650-07	.1786-01	0.0175
451	.7670-07	.1792-01	.5547-01
452	.7677-07	.1792-01	.5550-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(7O) BTU/ R FT <sup>2</sup> SEC	H(1AW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TH DEG. R
450	.00000	.00000	1.0000	.9070	.7427	.7595	.1620-01	.1326-01	.1356-01	9.381	51.48	573.8
450	.00000	.50000-02	2.0000	.7462	.6113	.6251	.1333-01	.1092-01	.1116-01	7.733	53.07	572.7
450	.00000	.10000-01	3.0000	.5670	.4661	.4966	.1013-01	.8324-02	.8868-02	5.992	40.11	561.2
450	.00000	.20000-01	4.0000	.3316	.2339	.3056	.5922-02	.4892-02	.5457-02	3.603	20.06	544.6
450	.00000	.30000-01	5.0000	.2340	.1935	.2206	.4180-02	.3455-02	.3940-02	2.552	14.23	542.3
450	.00000	.40000-01	6.0000	.1853	.1541	.1781	.3326-02	.2751-02	.3181-02	2.039	11.38	540.0
450	.00000	.50000-01	7.0000	.1652	.1366	.1397	.2951-02	.2439-02	.2851-02	1.800	12.16	543.1
450	.00000	.60000-01	8.0000	.1648	.1363	.1604	.2943-02	.2434-02	.2865-02	1.800	11.47	541.4
450	.00000	.70000-01	9.0000	.1416	.1171	.1388	.2529-02	.2031-02	.2480-02	1.546	10.78	541.4
450	.00000	.80000-01	10.000	.1051	.9020-01	.1016	.1948-02	.1611-02	.1921-02	1.195	8.341	539.3
450	.00000	.90000-01	11.000	.9500-01	.8200-01	.9800-01	.1769-02	.1464-02	.1751-02	1.087	6.936	538.5
450	.00000	.10000+00	12.000	.8620-01	.7130-01	.8560-01	.1539-02	.1274-02	.1529-02	.9470	5.718	537.8
450	.00000	.12000	14.000	.7830-01	.6480-01	.7820-01	.1398-02	.1157-02	.1396-02	.8620	4.822	535.9
450	.00000	.13000	15.000	.7560-01	.6260-01	.7560-01	.1350-02	.1118-02	.1351-02	.8330	4.903	536.0
450	.00000	.14000	16.000	.6830-01	.5650-01	.6840-01	.1220-02	.1010-02	.1222-02	.7520	4.806	536.2
450	.00000	.16000	18.000	.6550-01	.5430-01	.6580-01	.1171-02	.9692-03	.1175-02	.7220	4.485	536.2
450	.00000	.17000	19.000	.6510-01	.5390-01	.6540-01	.1163-02	.9626-03	.1168-02	.7170	4.580	536.4



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AEDC VKF V41B-57A (OH-498) COLLATION DECK:

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THE: A	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	CTWOT DEG. R /SEC	TH DEG. R
450	.00000	.18000	20.000	.6710-01	.5560-01	.6750-01	.1199-02	.9928-03	.1206-02	.7400	4.727	536.1
450	.00000	.19000	21.000	.7090-01	.5870-01	.7140-01	.1265-02	.1048-02	.1274-02	.7830	5.013	533.8
450	.00000	.20000	22.000	.6130-01	.5070-01	.6180-01	.1094-02	.9050-03	.1103-02	.6750	4.314	535.9
450	.00000	.22500	23.000	.5590-01	.4630-01	.5650-01	.9983-03	.8267-03	.1009-02	.6160	3.938	535.8
450	.00000	.25000	801.00	.5400-01	.4480-01	.5470-01	.9853-03	.7954-03	.9773-03	.5960	3.802	535.7
450	.00000	.30000	802.00	.4810-01	.3980-01	.4870-01	.8589-03	.7111-03	.6694-03	.5300	3.387	535.8
450	.00000	.35000	803.00	.5100-01	.4220-01	.5160-01	.3104-03	.7537-03	.9217-03	.5610	3.583	536.9
450	.00000	.40000	804.00	.4690-01	.3880-01	.4740-01	.8366-03	.6924-03	.8470-03	.5150	3.384	537.7
450	.00000	.45000	805.00	.4450-01	.3690-01	.4510-01	.7956-03	.6562-03	.8055-03	.4880	3.304	539.3
450	.00000	.50000	806.00	.4070-01	.3370-01	.4120-01	.7276-03	.6019-03	.7367-03	.4460	3.115	539.5
450	.00000	.55000	807.00	.3790-01	.3130-01	.3830-01	.6762-03	.5593-03	.6847-03	.4140	3.083	540.3
450	.00000	.60000	808.00	.3450-01	.2850-01	.3490-01	.6154-03	.5090-03	.6231-03	.3770	2.805	540.2
450	.00000	.65000	809.00	.3210-01	.2650-01	.3250-01	.5734-03	.4741-03	.5805-03	.3510	2.610	540.8
450	.00000	.70000	810.00	.3190-01	.2640-01	.3230-01	.5702-03	.4716-03	.5773-03	.3490	2.688	540.4
450	.00000	.75000	811.00	.3190-01	.2640-01	.3230-01	.5592-03	.4709-03	.5763-03	.3490	2.599	539.4
450	.00000	.80000	812.00	.2580-01	.2470-01	.3020-01	.5328-03	.4409-03	.5395-03	.3280	2.439	538.3
450	.00000	.85000	813.00	.3050-01	.2520-01	.3120-01	.5443-03	.4506-03	.5566-03	.3350	2.584	537.2
450	.00000	.90000	814.00	.2660-01	.2210-01	.2730-01	.4755-03	.3939-03	.4871-03	.2940	2.122	534.9
450	.00000	.92500	815.00	.2140-01	.1770-01	.2200-01	.3824-03	.3168-03	.3926-03	.2370	1.962	534.2
450	.00000	.95000	816.00	.1490-01	.1240-01	.1540-01	.2669-03	.2211-03	.2746-03	.1650	1.372	533.3
450	.00000	.97500	817.00	.9300-02	.7700-02	.9600-02	.1660-03	.1375-03	.1712-03	.1030	.8520	534.1
450	.00000	1.0300	818.00	.1830-01	.1550-01	.1940-01	.3490-03	.2772-03	.3463-03	.2060	1.535	537.8
450	.00000	1.0600	821.00	.4090-01	.3380-01	.4230-01	.7298-03	.6037-03	.7548-03	.4470	3.768	540.0
450	.00000	1.5000	83.000	.2070-01	.1720-01	.2070-01	.3035-03	.3066-03	.3695-03	.2310	1.401	528.1
450	.00000	.20000	91.000	.2930-01	.2430-01	.2930-01	.5237-03	.4347-03	.5237-03	.3280	2.044	527.5
450	.00000	.50000	90.000	.9300-02	.7700-02	.9300-02	.1653-03	.1372-03	.1653-03	.1030	.6280	527.0
450	.00000	.824.00	824.00	.4620-01	.3320-01	.4680-01	.8252-03	.6822-03	.8355-03	.5040	4.018	541.7
450	.00000	.825.00	825.00	.3210-01	.2660-01	.3250-01	.5740-03	.4745-03	.5812-03	.3510	3.127	542.2
450	.00000	.826.00	826.00	.3590-01	.2970-01	.3640-01	.6418-03	.5305-03	.6499-03	.3920	2.915	542.0
450	.00000	.827.00	827.00	.3520-01	.2910-01	.3560-01	.6280-03	.5156-03	.6353-03	.3860	2.871	533.0
450	.00000	.828.00	828.00	.2630-01	.2180-01	.2690-01	.4697-03	.3630-03	.4811-03	.2900	2.320	535.0
451	.00000	1.0000	103.00	.1485	.1229	.1485	.2660-03	.2202-02	.2660-02	.1642	9.652	538.7
451	.00000	1.5000	104.00	.8510-01	.7050-01	.8510-01	.1524-02	.1263-02	.1524-02	.9450	6.042	535.8
450	.00000	.92500	971.00	.1900-01	.1580-01	.1900-01	.3394-03	.2814-03	.3394-03	.2110	1.576	531.8
450	.00000	.95000	975.00	.3050-01	.2530-01	.3050-01	.5453-03	.4520-03	.5453-03	.3380	2.528	532.4
450	.00000	.97500	980.00	.3050-01	.2530-01	.3050-01	.5447-03	.4516-03	.5447-03	.3390	2.532	531.1
451	.00000	.20000	105.00	.2184	.1806	.2184	.3913-02	.3236-02	.3913-02	.2406	13.42	541.2
450	.00000	.20000	97.000	.3080-01	.2560-01	.3080-01	.5501-03	.4566-03	.5501-03	.3440	2.149	527.1
451	.00000	1.0000	106.00	.1653	.1368	.1653	.2962-02	.2451-02	.2962-02	1.824	11.63	540.3
451	.00000	1.5000	107.00	.1009	.8350-01	.1033	.1808-02	.1497-02	.1808-02	1.116	9.976	538.5
450	.00000	.92500	970.00	.1220-01	.1010-01	.1220-01	.2182-03	.1809-03	.2182-03	.1360	1.016	530.5

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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(RV1B43)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	I/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AN) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
450	30.000	.95000	974.00	.2480-01	.2050-01	.2480-01	.4421-03	.3655-03	.4421-03	.2750	2.052	531.7
450	30.000	.97500	979.00	.3540-01	.3020-01	.3640-01	.6507-03	.5396-03	.6507-03	.2750	3.026	530.9
451	31.500	.20000	108.00	.6270-01	.5190-01	.6270-01	.1123-02	.9303-03	.1123-02	.6960	5.549	536.4
450	32.000	.40000	831.00	.7250-01	.6000-01	.7350-01	.1296-02	.1072-02	.1312-02	.7950	5.549	539.3
450	32.000	.50000	832.00	.5700-01	.4720-01	.5780-01	.1019-02	.8421-03	.1031-02	.6220	4.478	541.9
450	32.000	.60000	833.00	.5430-01	.4490-01	.5500-01	.9704-03	.8020-03	.9826-03	.5920	4.606	543.0
450	32.000	.70000	934.00	.5450-01	.4520-01	.5520-01	.9757-03	.8071-03	.9879-03	.5980	4.606	538.8
450	32.000	.80000	635.00	.3540-01	.3010-01	.3580-01	.6497-03	.5376-03	.6578-03	.3990	2.876	538.7
450	32.000	.90000	826.00	.2770-01	.2290-01	.2830-01	.4938-03	.4091-03	.5059-03	.3050	2.279	534.5
450	32.000	.95000	937.00	.3220-01	.2670-01	.3320-01	.5759-03	.4771-03	.5926-03	.3560	2.753	534.0
450	32.000	1.0150	239.00	.2000-01	.1660-01	.2060-01	.2495-03	.2088-03	.2491-03	.1550	1.258	533.8
450	32.000	1.0300	840.00	.1400-01	.1160-01	.1390-01	.2495-03	.2088-03	.2491-03	.3730	2.925	537.0
450	32.000	1.0450	841.00	.3390-01	.2810-01	.3360-01	.6053-03	.5011-03	.6041-03	.5920	4.1564	538.1
451	35.000	.50000-01	115.00	.1494	.1236	.1494	.2677-02	.2215-02	.2677-02	.1650	10.53	539.6
451	35.000	.20000	110.00	.7250-01	.6010-01	.7260-01	.1301-02	.1277-02	.1301-02	.8050	8.176	537.5
451	39.000	.10000+00	116.00	.1129	.9350-01	.1129	.2023-02	.1676-02	.2023-02	.1253	8.006	536.7
451	40.000	.76000-01	121.00	.8330-01	.6900-01	.8330-01	.1492-02	.1237-02	.1492-02	.9270	5.932	534.4
451	40.000	.15000	111.00	.1170	.1170	.1170	.2534-02	.2096-02	.2534-02	.1557	11.58	541.5
451	40.000	.20000	112.00	.7700-01	.6380-01	.7700-01	.1380-02	.1142-02	.1380-02	.8520	9.512	538.8
451	42.500	.50000-01	127.00	.1135	.9400-01	.1135	.2033-02	.1684-02	.2033-02	.1258	8.526	537.0
451	45.000	.15000	117.00	.8370-01	.7350-01	.8370-01	.1589-02	.1317-02	.1589-02	.9870	5.812	535.0
450	45.000	.92500	959.00	.2800-02	.2300-02	.2300-02	.4920-04	.4084-04	.4920-04	.3100-01	2.510	527.6
450	45.000	.95000	973.00	.4300-02	.3500-02	.4300-02	.7613-04	.6317-04	.7613-04	.4800-01	3.560	528.4
450	45.000	.97500	978.00	.9300-02	.7800-02	.9300-02	.1659-03	.1395-03	.1659-03	.1040	7.800	528.6
451	51.000	.20000	118.00	.5200-01	.4320-01	.5200-01	.9323-03	.7731-03	.9323-03	.5820	3.725	532.1
451	60.000	.50000-01	131.00	.6520-01	.5490-01	.6520-01	.1185-02	.9835-03	.1186-02	.7390	5.013	533.5
451	67.500	.20000	128.00	.2910-01	.2420-01	.2310-01	.5221-03	.4332-03	.5221-03	.3270	2.442	530.4
450	75.000	.97500	977.00	.6000-02	.5000-02	.6000-02	.1072-03	.8899-04	.1072-03	.6700-01	.5020	528.2
450	85.000	.97500	976.00	.3700-02	.3100-02	.3100-02	.6573-04	.5456-04	.6573-04	.4100-01	.3080	527.2
451	105.00	.40100	135.00	.1150-01	.9600-02	.1150-01	.2069-03	.1717-03	.2069-03	.1300	1.009	529.5
451	105.00	.50100	136.00	.2260-01	.1870-01	.2260-01	.3356-03	.3356-03	.4047-03	.2520	2.023	532.1
451	105.00	.60100	137.00	.3480-01	.2880-01	.3480-01	.6231-03	.5165-03	.6231-03	.3680	3.105	533.6
451	105.00	.70100	138.00	.2300-01	.1910-01	.2300-01	.4125-03	.3422-03	.4125-03	.2580	2.067	531.1
451	105.00	.80500	139.00	.9100-02	.7600-02	.9100-02	.1639-03	.1361-03	.1639-03	.1030	.8270	528.1
451	113.00	.60100	146.00	.2570-01	.2140-01	.2570-01	.4613-03	.3826-03	.4613-03	.2880	2.309	531.5
451	116.00	.60100	147.00	.3010-01	.2500-01	.3010-01	.5397-03	.4475-03	.5397-03	.3360	2.695	532.6
451	120.00	.75100	148.00	.3540-01	.2930-01	.3540-01	.6338-03	.525 -03	.6338-03	.3960	3.174	531.3
451	120.00	.10300+00	132.00	.2360-01	.1950-01	.2360-01	.4220-03	.3502-03	.4220-03	.2640	1.604	529.3
451	120.00	.80500	247.00	.8620-01	.8620-01	.8620-01	.1853-02	.1545-02	.1853-02	.1160	9.589	533.3
451	120.00	.82900	248.00	.8550 -1	.7090-01	.8350-01	.1532-02	.1270-02	.1532-02	.9550	7.589	532.4
451	120.00	.86200	249.00	.7750-01	.6430-01	.7750-01	.1388-02	.1151-02	.1388-02	.8680	6.369	530.3
451	130.00	.80500	253.00	.9000-01	.7470-01	.9000-01	.1613-02	.1338-02	.1613-02	.1008	8.078	531.4

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 23 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R F12SEC	H(1TO) BTU/ R F12SEC	H(1AW) BTU/ R F12SEC	QOOT BTU/ R F12SEC	OTMOT DEG. R /SEC	TM DEG. R
451	130.00	.82900	254.00	.6930-01	.5750-01	.6330-01	.1242-02	.1031-02	.1242-02	.7780	6.058	529.3
451	130.00	.86200	255.00	.3390-01	.2810-01	.3390-01	.6071-03	.5042-03	.6071-03	.3620	3.172	526.5
451	135.00	.40100	142.00	.2200-02	.1900-02	.2200-02	.4001-04	.3323-04	.4001-04	.2500-01	.1960	526.7
451	135.00	.50100	143.00	.2200-02	.1800-02	.2200-02	.3972-04	.3298-04	.3972-04	.2500-01	.2070	527.6
451	135.00	.60100	144.00	.3500-02	.3000-02	.3500-02	.6514-04	.5407-04	.6514-04	.4100-01	.3190	528.0
451	135.00	.70100	145.00	.3500-02	.2900-02	.3500-02	.6155-04	.5145-04	.6155-04	.3900-01	.3130	526.8
451	140.00	.18000	85.000	.1810-01	.1500-01	.1810-01	.3237-03	.2659-03	.3237-03	.2040	1.583	525.4
451	140.00	.19500	87.000	.1570-01	.1310-01	.1570-01	.2817-03	.2339-03	.2817-03	.1770	1.372	527.4
451	145.00	.80500	259.00	.4910-01	.4080-01	.4910-01	.8796-03	.7304-03	.8796-03	.5530	4.310	526.2
452	145.00	.82900	260.00	.1740-01	.1450-01	.1740-01	.3123-03	.2594-03	.3123-03	.1970	1.491	527.3
451	150.00	.86200	261.00	.7700-02	.6400-02	.7700-02	.1384-03	.1150-03	.1384-03	.8800-01	.7280	524.3
451	150.00	.15500	86.000	.1530-01	.1270-01	.1530-01	.2737-03	.2273-03	.2737-03	.1220	1.288	527.5
451	150.00	.18000	84.000	.2650-01	.2350-01	.2650-01	.5100-03	.4234-03	.5100-03	.3200	2.398	528.0
451	150.00	.19000	82.000	.6000-03	.5000-03	.6000-03	.1007-04	.8346-05	.1007-04	.6000-02	.4700-01	534.8
451	155.00	.16000	80.000	.1450-01	.1200-01	.1450-01	.2593-03	.2158-03	.2593-03	.1630	1.223	527.5
451	160.00	.18000	77.000	.3630-01	.3180-01	.3630-01	.6667-03	.5697-03	.6667-03	.4290	3.438	530.9
451	175.00	.15000	81.000	.1220-01	.1010-01	.1220-01	.2187-03	.1816-03	.2187-03	.1370	.9950	528.2
451	175.00	.16500	79.000	.2960-01	.2460-01	.2960-01	.5311-03	.4408-03	.5311-03	.3330	2.492	528.9
451	175.00	.17500	78.000	.4540-01	.3770-01	.4540-01	.8133-03	.6748-03	.8133-03	.5090	3.682	530.3
450	180.00	.10300-01	59.000	.2867	.2357	.2867	.5121-02	.4228-02	.5121-02	3.105	23.03	546.6
450	180.00	.25000-01	60.000	.9690-01	.8020-01	.9690-01	.1731-02	.1433-02	.1731-02	1.067	7.658	536.4
450	180.00	.50000-01	61.000	.4780-01	.3970-01	.4780-01	.6544-03	.7093-03	.6544-03	.5310	3.399	531.8
450	180.00	.75000-01	62.000	.2520-01	.2080-01	.2520-01	.4507-03	.3733-03	.4507-03	.2810	1.801	529.7
450	180.00	.10000*00	63.000	.1540-01	.1280-01	.1540-01	.2745-03	.2278-03	.2745-03	.1710	1.132	528.6
450	180.00	.12500	64.000	.1210-01	.1010-01	.1210-01	.2167-03	.1799-03	.2167-03	.1350	.9510	527.9
450	180.00	.15000	65.000	.7200-02	.6000-02	.7200-02	.1286-03	.1068-03	.1286-03	.8100-01	.5650	527.1
450	180.00	.16000	66.000	.1670-01	.1380-01	.1670-01	.2977-03	.2471-03	.2977-03	.1660	1.045	527.9
450	180.00	.17000	67.000	.6100-01	.5060-01	.6100-01	.1030-02	.9036-03	.1030-02	.6780	3.801	530.8
450	180.00	.20000	69.000	.1980-01	.1650-01	.1980-01	.3542-03	.2940-03	.3542-03	.2210	1.382	527.7
450	180.00	.40100	72.000	.5400-02	.4500-02	.5400-02	.9534-04	.7997-04	.9534-04	.6000-01	.5170	526.9
450	180.00	.50000	73.000	.6900-02	.5700-02	.6900-02	.1232-03	.1022-03	.1232-03	.7700-01	.6500	527.4
450	180.00	.60100	74.000	.8100-02	.6700-02	.8100-02	.1433-03	.1194-03	.1433-03	.9000-01	.7470	527.2
450	180.00	.70100	75.000	.7000-02	.5800-02	.7000-02	.1242-03	.1031-03	.1242-03	.7800-01	.6260	526.1

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = -30.00 SPDRBK = 40.00  
BOFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	P0 PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
453	7.980	1.986	19.97	.0000	180.0	428.1	.4500-01	1294.	94.20	1.987	3796.	.3968-04
454	7.980	1.994	19.97	.0000	180.0	428.4	.4500-01	1291.	94.00	1.988	3791.	.3980-04
455	7.980	2.008	19.97	.0000	180.0	430.3	.4500-01	1289.	93.80	1.997	3788.	.4005-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
453	.7586-07	.3459-01	0.0175
454	.7569-07	.3459-01	.2892-01
455	.7555-07	.3465-01	.2887-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(UTO) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DT/DT DEG. R /SEC	TH DEG. R
453	.00000	.00000	1.0000	.9104	.7384	.7558	.3149-01	.2554-01	.2614-01	17.50	94.33	609.3
453	.00000	.50000-02	2.0000	.7370	.5983	.6124	.2549-01	.2069-01	.2118-01	14.23	96.04	606.6
453	.00000	.10000-01	3.0000	.5606	.4586	.4893	.1939-01	.1586-01	.1693-01	11.28	74.70	583.0
453	.00000	.20000-01	4.0000	.3263	.2701	.3012	.1131-01	.9341-02	.1042-01	6.958	38.65	549.4
453	.00000	.30000-01	5.0000	.2298	.1903	.2.68	.7949-02	.6583-02	.7498-02	4.960	27.67	540.9
453	.00000	.40000-01	6.0000	.1863	.1545	.1783	.6443-02	.5343-02	.6166-02	4.050	22.64	536.3
453	.00000	.50000-01	7.0000	.1624	.1344	.1570	.5617-02	.4650-02	.5429-02	3.497	23.63	542.2
453	.00000	.60000-01	8.0000	.1601	.1327	.1559	.5537-02	.4589-02	.5392-02	3.469	22.14	538.4
453	.00000	.70000-01	9.0000	.1363	.1130	.1337	.4715-02	.3907-02	.4626-02	2.951	20.59	539.1
453	.00000	.80000-01	10.000	.1012	.8390-01	.9390-01	.3499-02	.2903-02	.3452-02	2.204	15.42	534.9
453	.00000	.90000-01	11.000	.9540-01	.7920-01	.9450-01	.3300-02	.2739-02	.3267-02	2.086	13.36	532.6
453	.00000	.10000+00	12.000	.8600-01	.7140-01	.8550-01	.2974-02	.2469-02	.2956-02	1.884	11.41	531.4
453	.00000	.12000	14.000	.7440-01	.6180-01	.7430-01	.2573-02	.2138-02	.2570-02	1.639	9.201	527.9
453	.00000	.13000	15.000	.7110-01	.5910-01	.7.20-01	.2461-02	.2045-02	.2462-02	1.567	9.259	528.2
453	.00000	.14000	16.000	.6420-01	.5340-01	.6430-01	.2221-02	.1846-02	.2225-02	1.414	9.071	528.4
453	.00000	.16000	18.000	.6530-01	.5510-01	.6650-01	.2292-02	.1905-02	.2301-02	1.458	9.091	528.9
453	.00000	.17000	19.000	.6300-01	.5230-01	.6330-01	.2178-02	.1810-02	.2189-02	1.385	8.680	529.3

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H1GTO BTU/R FT2SEC	H1TO BTU/R FT2SEC	H1TAN BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
453	.00000	.18000	20.000	.5980-01	.4970-01	.5010-01	.2068-02	.1718-02	.2080-02	1.314	8.423	529.6
453	.00000	.19000	21.000	.5740-01	.4770-01	.5780-01	.1986-02	.1651-02	.2000-02	1.267	8.135	526.8
453	.00000	.20000	22.000	.5790-01	.4810-01	.5830-01	.2001-02	.1663-02	.2018-02	1.272	8.159	529.1
453	.00000	.22500	23.000	.5380-01	.4470-01	.5430-01	.1860-02	.1545-02	.1880-02	1.183	7.586	528.9
453	.00000	.25000	801.00	.5200-01	.4320-01	.5270-01	.1799-02	.1495-02	.1821-02	1.145	7.343	528.7
453	.00000	.30000	802.00	.4630-01	.3850-01	.4690-01	.1601-02	.1331-02	.1621-02	1.018	6.531	529.0
453	.00000	.35000	803.00	.4460-01	.3700-01	.4520-01	.1543-02	.1281-02	.1562-02	.9780	6.266	531.1
453	.00000	.40000	804.00	.4430-01	.3670-01	.4480-01	.1531-02	.1271-02	.1550-02	.9700	6.395	531.3
453	.00000	.45000	805.00	.4040-01	.3350-01	.4090-01	.1397-02	.1160-02	.1415-02	.8840	6.006	532.0
453	.00000	.50000	806.00	.3700-01	.3070-01	.3740-01	.1279-02	.1062-02	.1295-02	.8090	5.664	532.5
453	.00000	.55000	807.00	.3540-01	.2940-01	.3580-01	.1224-02	.1016-02	.1240-02	.7730	5.771	533.6
453	.00000	.60000	808.00	.3150-01	.2620-01	.3130-01	.1091-02	.9052-03	.1104-03	.6890	5.144	533.2
453	.00000	.65000	809.00	.2940-01	.2440-01	.2930-01	.1017-02	.8440-03	.1030-02	.6420	4.790	534.0
453	.00000	.70000	810.00	.2660-01	.2210-01	.2700-01	.9214-03	.7645-03	.9328-03	.5810	4.487	534.1
453	.00000	.75000	811.00	.2510-01	.2170-01	.2640-01	.9033-03	.7496-03	.9145-03	.5700	4.255	533.8
453	.00000	.80000	812.00	.2640-01	.2360-01	.2870-01	.9817-03	.8146-03	.9933-03	.6190	4.621	534.2
453	.00000	.85000	813.00	.2760-01	.2290-01	.2830-01	.9563-03	.7927-03	.9775-03	.6040	4.666	533.2
453	.00000	.90000	814.00	.2550-01	.2100-01	.2610-01	.8828-03	.7331-03	.9040-03	.5590	4.047	531.1
453	.00000	.92500	815.00	.2000-01	.1660-01	.2050-01	.6914-03	.5743-03	.7095-03	.4390	3.647	530.1
453	.00000	.95000	816.00	.1260-01	.1040-01	.1230-01	.4345-03	.3611-03	.4469-03	.2770	2.300	528.5
453	.00000	.97500	817.00	.8100-02	.6700-02	.7999-03	.2799-03	.2326-03	.2885-03	.1780	1.462	528.3
453	.00000	1.0150	818.00	.1770-01	.1460-01	.1830-01	.6112-03	.5067-03	.6318-03	.3840	2.858	537.3
453	.00000	1.0300	819.00	.7980-01	.6610-01	.8250-01	.2760-02	.2285-02	.2854-02	1.718	12.77	542.3
453	.00000	1.0600	821.00	.1414	.1166	.1453	.4890-02	.4734-02	.5060-02	2.984	24.95	554.7
453	.00000	.15000	83.000	.1670-01	.1390-01	.1670-01	.5789-03	.4820-03	.5789-03	.3730	2.271	520.9
453	.00000	.20000	91.000	.3120-01	.2600-01	.3120-01	.1079-02	.8977-03	.1079-02	.6920	4.329	523.2
453	.00000	.50000	93.000	.9700-02	.8000-02	.9700-02	.3339-03	.2780-03	.3339-03	.2150	1.311	520.6
453	.00000	.40000	823.00	.4900-01	.4070-01	.4970-01	.1697-02	.1408-02	.1717-02	1.069	8.550	534.5
453	.00000	.50000	824.00	.4620-01	.3830-01	.4630-01	.1598-02	.1325-02	.1618-02	1.003	8.012	537.1
453	.00000	.60000	825.00	.3020-01	.2510-01	.3050-01	.1045-02	.8665-03	.958-02	.6570	5.882	535.7
453	.00000	.70000	826.00	.3620-01	.3010-01	.3670-01	.1253-02	.1040-02	.1469-02	.7890	5.480	535.6
453	.00000	.80000	827.00	.3370-01	.2800-01	.3410-01	.1166-02	.9670-03	.1180-02	.7340	5.480	534.7
453	.00000	.90000	828.00	.2510-01	.2080-01	.2570-01	.6671-03	.7199-03	.8880-03	.5490	4.394	531.9
454	.00000	.10000	103.00	.1482	.1226	.1482	.5125-02	.4240-02	.5125-02	3.174	18.62	543.0
454	.00000	.15000	104.00	.8240-01	.6830-01	.8240-01	.2850-02	.2361-02	.2850-02	1.777	11.34	538.7
453	.00000	.92500	971.00	.1370-01	.1140-01	.1370-01	.7500-03	.3949-03	.7500-03	.3030	2.272	526.5
453	.00000	.95000	975.00	.3080-01	.2560-01	.3030-01	.1065-02	.8846-03	.1065-02	.6770	5.070	528.6
453	.00000	.97500	980.00	.3400-01	.2830-01	.3400-01	.1177-02	.9785-03	.1177-02	.7500	5.620	527.4
454	.00000	.50000	105.00	.2221	.1836	.2221	.7681-02	.6351-02	.7681-02	4.736	26.36	545.6
454	.00000	.20000	93.000	.4240-01	.3530-01	.4240-01	.1466-02	.1219-02	.1466-02	.9390	5.870	524.2
454	.00000	.10000	106.00	.1647	.1362	.1647	.5698-02	.4710-02	.5698-02	3.510	22.32	546.2
454	.00000	.15000	107.00	.1013	.8380-01	.1013	.3504-02	.2898-02	.3504-02	2.166	19.30	544.3
453	.00000	.92500	970.00	.1090-01	.9100-02	.1030-01	.3769-03	.3135-03	.3769-03	.2410	1.812	524.0

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(STO) BTU/ R FT/SEC	H(TO) BTU/ R FT/SEC	H(TAN) BTU/ R FT/SEC	QDOT BTU/ R FT/SEC	DTWOT DEG. R /SEC	TW DEG. R
453	30.000	.95000	974.00	.2780-01	.2310-01	.2730-01	.9628-03	.8004-03	.1349-02	.6140	4.598	527.2
453	30.000	.97500	979.00	.3000-01	.3240-01	.3930-01	.1349-02	.1122-02	.1349-02	.8630	6.470	525.1
454	31.500	.20000	108.00	.6450-01	.5340-01	.6450-01	.2231-02	.2041-02	.2231-02	1.387	14.07	540.5
453	32.000	.40000	831.00	.7110-01	.5900-01	.7230-01	.2461-02	.2041-02	.2461-02	1.551	10.85	534.8
453	32.000	.50000	832.00	.6170-01	.5120-01	.6230-01	.2136-02	.1770-02	.2162-02	1.339	9.657	537.7
453	32.000	.60000	833.00	.5110-01	.4240-01	.5170-01	.1768-02	.1465-02	.1790-02	1.107	7.498	538.4
453	32.000	.70000	834.00	.4150-01	.3430-01	.4230-01	.1434-02	.1188-02	.1452-02	.8960	6.895	540.2
453	32.000	.80000	835.00	.3340-01	.2770-01	.3330-01	.1154-02	.9573-03	.1168-02	.7270	5.251	534.7
453	32.000	.90000	836.00	.2510-01	.2090-01	.2570-01	.8633-03	.7218-03	.6303-03	.5510	4.115	531.5
453	32.000	.95000	837.00	.3250-01	.2700-01	.3340-01	.1123-02	.9323-03	.1155-02	.7110	5.493	532.0
453	32.000	.97500	838.00	.1080-01	.8900-02	.1110-01	.3721-03	.3092-03	.3835-03	.2370	1.899	528.5
453	32.000	1.0150	839.00	.1540-01	.1270-01	.1530-01	.5350-03	.4408-03	.5309-03	.3330	2.704	539.1
453	32.000	1.0300	840.00	.6690-01	.5530-01	.6690-01	.2314-02	.1914-02	.2309-02	1.436	11.22	544.2
453	32.000	1.0450	841.00	.9800-01	.8100-01	.9730-01	.3391-02	.2802-02	.3384-02	2.090	16.02	548.5
454	35.000	.50000-01	115.00	.1497	.1239	.1437	.5178-02	.4266-02	.178-02	3.211	20.46	542.1
454	35.000	.20000	110.00	.7380-01	.6100-01	.7330-01	.2552-02	.2111-02	.2552-02	1.577	15.96	544.4
454	39.000	.10000+00	115.00	.1085	.8980-01	.1035	.3753-02	.3108-02	.3753-02	2.335	14.89	540.0
454	40.000	.78600-01	121.00	.8290-01	.6880-01	.8290-01	.2866-02	.2378-02	.2866-02	1.803	11.54	533.2
454	40.000	.15000	111.00	.1466	.1161	.1476	.4862-02	.4016-02	.4862-02	2.981	22.08	549.1
454	40.000	.20000	112.00	.7660-01	.6340-01	.7660-01	.2650-02	.2191-02	.2650-02	1.637	18.23	544.5
454	42.500	.50000-01	127.00	.1123	.9310-01	.1123	.3884-02	.3219-02	.3884-02	2.427	16.44	537.4
454	45.000	.15000	117.00	.8980-01	.7440-01	.8930-01	.3104-02	.2573-02	.3104-02	1.941	11.42	536.9
453	45.700	.92500	969.00	.1300-02	.1100-02	.1370-02	.4542-04	.378-04	.4542-04	.2900-01	.2210	518.9
453	45.000	.95000	973.00	.2700-02	.2200-02	.2770-02	.9281-04	.7729-04	.9281-04	.6000-01	4.500	520.4
454	45.000	.97500	978.00	.7600-02	.6300-01	.7600-02	.2612-03	.2175-03	.2612-03	.1680	1.263	521.4
454	51.000	.20000	118.00	.4700-01	.3900-01	.4700-01	.1625-02	.1349-02	.1625-02	1.025	6.569	531.2
454	60.000	.50000-01	131.00	.6170-01	.5120-01	.6170-01	.2134-02	.1772-02	.2134-02	1.350	9.180	529.7
453	67.500	.20000	128.00	.2990-01	.2470-01	.2990-01	.1031-02	.8560-03	.1031-02	.6530	4.880	528.7
453	75.000	.97500	977.00	.5300-02	.4400-02	.5300-02	.1820-03	.1515-03	.1820-03	.1170	.8800	521.3
453	85.000	.97500	976.00	.4700-02	.3900-02	.4700-02	.1613-03	.1343-03	.1613-03	.1040	.7810	520.6
454	105.00	.40100	135.00	.1120-01	.9300-02	.1120-01	.3872-03	.3220-03	.3872-03	.2470	1.929	524.1
454	105.00	.50100	136.00	.1970-01	.1540-01	.1970-01	.6805-03	.5656-03	.6805-03	.4330	3.481	526.2
454	105.00	.60100	137.00	.3080-01	.2560-01	.3080-01	.1067-02	.8864-03	.1067-02	.6770	5.443	527.3
454	105.00	.70100	138.00	.5410-01	.4490-01	.5410-01	.1871-02	.1553-02	.1871-02	1.183	9.493	529.8
454	105.00	.80000	139.00	.1640-01	.1370-01	.1640-01	.5683-03	.4728-03	.5683-03	.3630	2.928	522.9
454	113.00	.60100	146.00	.2080-01	.1730-01	.2080-01	.7180-03	.5971-03	.7180-03	.4580	3.685	524.7
454	116.00	.60100	147.00	.2200-01	.1830-01	.2200-01	.6334-03	.5371-03	.6334-03	.4850	3.903	525.5
454	120.00	.75100	148.00	.3700-01	.3090-01	.3700-01	.1281-02	.1064-02	.1281-02	.8150	6.570	526.2
454	120.00	.10000+00	132.00	.2140-01	.1780-01	.2140-01	.7412-03	.6165-03	.7412-03	.4730	2.870	523.9
454	120.00	.80500	247.00	.1351	.1119	.1351	.4672-02	.3871-02	.4672-02	2.916	24.04	538.0
454	120.00	.82300	248.00	.7920-01	.6580-01	.7920-01	.2740-02	.2275-02	.2740-02	1.730	14.33	530.7
454	120.00	.86200	249.00	.5400-01	.4430-01	.5400-01	.1867-02	.1553-02	.1867-02	1.190	8.751	525.3
454	130.00	.80500	253.00	.1081	.8970 01	.1081	.3738-02	.3101-02	.3738-02	2.350	18.82	533.5

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1343)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	I/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	OTWDT DEG. R /SEC	TW DEG. R
454	130.00	.82900	254.00	.6000-01	.4990-01	.6000-01	.2075-02	.1725-02	.2075-02	1.320	10.30	526.0
454	130.00	.86200	255.00	.2690-01	.2240-01	.2690-01	.9296-03	.7735-03	.9296-03	.5950	4.953	522.1
454	135.00	.40100	142.00	.1200-02	.1000-02	.1200-02	.4244-04	.3533-04	.4244-04	.2700-01	.2130	520.7
454	135.00	.50100	143.00	.1400-02	.1200-02	.1400-02	.4847-04	.4035-04	.4847-04	.3100-01	.2590	520.9
454	135.00	.60100	144.00	.5400-02	.4500-02	.5400-02	.1859-03	.1547-03	.1859-03	.1190	.932	521.1
454	135.00	.70100	145.00	.5200-02	.4300-02	.5200-02	.1802-03	.1501-03	.1802-03	.1160	.934	520.0
454	140.00	.18000	85.000	.1330-01	.1110-01	.1330-01	.4608-03	.3932-03	.4608-03	.2940	2.279	524.7
454	140.00	.19500	87.000	.1900-01	.1580-01	.1900-01	.6588-03	.5479-03	.6588-03	.4200	3.260	524.5
454	145.00	.80500	259.00	.5660-01	.4710-01	.5660-01	.1959-02	.1629-02	.1959-02	1.249	9.743	525.0
455	145.00	.82900	260.00	.1140-01	.9500-02	.1140-01	.3960-03	.3290-03	.3960-03	.2510	1.897	526.8
455	145.00	.86200	261.00	.5700-02	.4700-02	.5700-02	.1971-03	.1640-03	.1971-03	.1260	1.046	522.4
454	150.00	.16000	86.000	.1960-01	.1630-01	.1960-01	.6765-03	.5626-03	.6765-03	.4310	3.235	524.5
454	150.00	.18000	84.000	.4230-01	.3510-01	.4230-01	.1463-02	.1215-02	.1463-02	.9280	6.952	527.5
454	150.00	.19000	82.000	.9000-03	.8000-03	.9000-03	.3250-04	.2633-04	.3250-04	.2100-01	.1540	528.8
454	155.00	.16000	80.000	.1930-01	.1610-01	.1930-01	.6684-03	.5560-03	.6684-03	.4270	3.203	523.7
454	155.00	.18000	83.000	.5000-03	.4000-03	.5000-03	.1573-04	.1307-04	.1573-04	.1000-01	.7500-01	528.5
454	160.00	.18000	77.000	.6280-01	.5210-01	.6280-01	.2172-02	.1802-02	.2172-02	1.367	10.94	532.8
454	175.00	.15000	81.000	.1610-01	.1340-01	.1610-01	.5575-03	.4637-03	.5575-03	.3560	2.587	523.2
454	175.00	.16500	79.000	.4300-01	.3570-01	.4300-01	.1488-02	.1236-02	.1488-02	.9440	7.065	528.1
454	175.00	.17500	78.000	.6410-01	.5320-01	.6410-01	.2216-02	.1840-02	.2216-02	1.430	10.13	530.6
453	180.00	.10000-01	59.000	.2844	.2346	.2844	.9838-02	.8116-02	.9838-02	6.000	44.31	555.0
453	180.00	.25000-01	60.000	.9250-01	.7680-01	.9250-01	.3200-02	.2657-02	.3200-02	2.025	14.64	532.1
453	180.00	.50000-01	61.000	.4350-01	.3620-01	.4350-01	.1504-02	.1251-02	.1504-02	.9620	6.185	525.1
453	180.00	.75000-01	62.000	.2240-01	.1860-01	.2240-01	.7736-03	.6440-03	.7736-03	.4970	3.201	522.0
453	180.00	.10000+00	63.000	.1280-01	.1070-01	.1280-01	.4433-03	.3631-03	.4433-03	.2850	1.892	521.2
453	180.00	.12500	64.000	.8900-02	.7400-02	.8900-02	.3083-03	.2567-03	.3083-03	.1930	1.400	520.3
453	180.00	.15000	65.000	.7200-02	.6000-02	.7200-02	.2507-03	.2098-03	.2507-03	.1620	1.140	520.0
453	180.00	.16000	66.000	.2850-01	.2370-01	.2850-01	.9867-03	.8212-03	.9867-03	.6330	3.565	523.0
453	180.00	.17000	67.000	.6200-01	.5160-01	.6200-01	.2146-02	.1783-02	.2146-02	1.367	7.675	527.9
453	180.00	.20000	69.000	.1880-01	.1560-01	.1880-01	.6500-03	.5411-03	.6500-03	.4180	2.617	521.6
453	180.00	.40100	72.000	.8900-02	.7400-02	.8900-02	.3072-03	.2557-03	.3072-03	.1970	1.698	522.0
453	180.00	.50000	73.000	.1340-01	.1120-01	.1340-01	.4639-03	.3861-03	.4639-03	.2980	2.500	522.8
453	180.00	.60100	74.000	.1310-01	.1090-01	.1310-01	.4524-03	.3765-03	.4524-03	.2900	2.416	522.9
453	180.00	.70100	75.000	.8800-02	.7300-02	.8800-02	.3031-03	.2523-03	.3031-03	.1950	1.572	521.7

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1844)

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = 0.000 SPDRK = 40.00  
 BDCLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6	ALPHA DEG.	YAW DEG.	PHI MODEL	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
444	7.900	.5474	30.02	.0000	180.0	109.9	.1200-01	1257.	93.20	.5330	3737.	.1099-04
445	7.900	.5502	30.03	.0000	180.0	110.6	.1200-01	1258.	93.30	.5370	3739.	.1105-04
446	7.900	.5440	30.04	.0000	180.0	109.9	.1200-01	1262.	93.50	.5330	3745.	.1095-04

RUN NUMBER	LB-SEC /FT2	HREF BTU/ R	ST FR R =
444	.7504-07	.1783-01	0.0175
445	.7510-07	.1789-01	.5464-01
446	.7535-07	.1785-01	.5493-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAL)	H(ISO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DT/DT DEG. R /SEC	TH DEG. R
444	.00000	.00000	1.0000	.7555	.6192	.6505	.1347-01	.1104-01	.1160-01	7.691	42.49	560.1
444	.00000	.50000-02	2.0000	.7575	.6198	.6233	.1351-01	.1105-01	.1112-01	7.642	52.64	565.2
444	.00000	.10000-01	3.0000	.6463	.5301	.5479	.1152-01	.9453-02	.9771-02	6.608	44.31	557.5
444	.00000	.20000-01	4.0000	.3845	.3168	.3402	.6856-02	.5648-02	.6066-02	4.030	22.46	543.1
444	.00000	.30000-01	5.0000	.2916	.2405	.2634	.5201-02	.4289-02	.4698-02	3.075	17.16	539.7
444	.00000	.40000-01	6.0000	.2628	.2168	.2406	.4686-02	.3865-02	.4290-02	2.772	15.48	539.3
444	.00000	.50000-01	7.0000	.2350	.1937	.2172	.4191-02	.3454-02	.3874-02	2.470	16.70	541.5
444	.00000	.60000-01	8.0000	.2315	.1908	.2153	.4128-02	.3403-02	.3844-02	2.435	15.52	541.7
444	.00000	.70000-01	9.0000	.2014	.1660	.1839	.3532-02	.2961-02	.3369-02	2.117	14.75	539.1
444	.00000	.80000-01	10.000	.1619	.1336	.1528	.2889-02	.2362-02	.2724-02	1.709	11.93	537.1
444	.00000	.90000-01	11.000	.1493	.1233	.1415	.2663-02	.2198-02	.2573-02	1.581	10.10	536.7
444	.00000	.10000+00	12.000	.1362	.1125	.1236	.2429-02	.2005-02	.2310-02	1.444	8.724	535.3
444	.00000	.12000	14.000	.1215	.1004	.1152	.2167-02	.1789-02	.2072-02	1.291	7.221	535.7
444	.00000	.13000	15.000	.1144	.9440-01	.1035	.2039-02	.1684-02	.1953-02	1.214	7.147	535.9
444	.00000	.14000	16.000	.1045	.8630-01	.1032	.1863-02	.1538-02	.1787-02	1.108	7.085	536.4
444	.00000	.15000	18.000	.1076	.8880-01	.1034	.1919-02	.1584-02	.1844-02	1.141	7.087	536.4
444	.00000	.16000	19.000	.1068	.8810-01	.1037	.1904-02	.1571-02	.1832-02	1.131	7.226	536.8

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



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AEDC VKF V418-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V418-57A) ORBITER FUSELAGE

(RV1844)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/R FT2SEC	H(1TO) BTU/R FT2SEC	H(TAN) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
444	.00000	.18000	20.000	.1065	.6790-01	.1026	.1899-02	.1567-02	.1829-02	1.128	7.206	537.0
444	.00000	.19000	21.000	.1014	.8380-01	.9780-01	.1809-02	.1494-02	.1745-02	1.078	6.895	534.9
444	.00000	.20000	22.000	.1003	.8280-01	.9590-01	.1789-02	.1477-02	.1728-02	1.063	6.791	536.7
444	.00000	.22500	23.000	.9100-01	.7520-01	.8820-01	.1623-02	.1340-02	.1572-02	.9660	6.171	536.2
444	.00000	.25000	801.00	.9040-01	.7460-01	.8770-01	.1612-02	.1331-02	.1564-02	.9590	6.129	536.0
444	.00000	.33000	802.00	.8190-01	.6760-01	.7940-01	.1460-02	.1205-02	.1417-02	.8680	5.547	536.5
444	.00000	.35000	803.00	.8810-01	.7270-01	.8540-01	.1571-02	.1296-02	.1523-02	.9310	5.941	538.4
444	.00000	.40000	804.00	.8330-01	.6870-01	.8080-01	.1486-02	.1226-02	.1441-02	.8800	5.780	538.8
444	.00000	.45000	805.00	.7890-01	.6500-01	.7650-01	.1407-02	.1160-02	.1364-02	.8310	5.623	540.0
444	.00000	.50000	805.00	.7040-01	.5800-01	.6830-01	.1255-02	.1035-02	.1217-02	.7410	5.168	540.6
444	.00000	.55000	807.00	.6480-01	.5340-01	.6280-01	.1155-02	.9522-03	.1120-02	.6810	5.062	541.6
444	.00000	.60000	808.00	.6050-01	.4990-01	.5870-01	.1080-02	.8999-03	.1047-02	.6360	4.731	541.6
444	.00000	.65000	809.00	.5750-01	.4740-01	.5530-01	.1025-02	.8449-03	.9943-03	.6030	4.485	5.2.4
444	.00000	.70000	810.00	.5630-01	.4640-01	.5460-01	.1004-02	.8273-03	.9736-03	.5910	4.542	542.5
444	.00000	.75000	811.00	.5860-01	.4830-01	.5680-01	.1045-02	.8611-03	.1013-02	.6150	4.573	542.2
444	.00000	.80000	812.00	.5710-01	.4700-01	.5540-01	.1018-02	.8390-03	.9872-03	.6000	4.460	541.6
444	.00000	.85000	813.00	.5520-01	.4550-01	.5410-01	.9845-03	.8117-03	.9654-03	.5810	4.469	541.0
444	.00000	.90000	814.00	.5120-01	.4220-01	.5030-01	.9128-03	.7528-03	.8971-03	.5400	3.889	539.5
444	.00000	.92500	815.00	.3980-01	.3230-01	.3330-01	.7105-03	.5862-03	.7002-03	.4210	3.484	538.3
444	.00000	.95000	816.00	.2310-01	.1910-01	.2280-01	.4115-03	.3397-03	.4066-03	.2450	2.026	536.6
444	.00000	.97500	817.00	.1360-01	.1130-01	.1350-01	.2433-03	.2009-03	.2410-03	.1450	1.157	536.7
444	.00000	1.0150	818.00	.1540-01	.1270-01	.1530-01	.2751-03	.2269-03	.2734-03	.1630	1.210	540.0
444	.00000	1.0300	819.00	.6540-01	.5390-01	.6490-01	.1166-02	.9606-03	.1158-02	.6860	5.102	542.1
444	.00000	1.0600	821.00	.1070	.8810-01	.1033	.1908-02	.1571-02	.1696-02	1.116	9.368	546.3
444	10.000	.15000	89.000	.9600-02	.8000-02	.9600-02	.1720-03	.1422-03	.1720-03	.1030	.6270	529.4
444	11.500	.20000	91.000	.1330-01	.1100-01	.1330-01	.2366-03	.1357-03	.2366-03	.1420	.8870	529.7
444	14.000	.50000-01	90.000	.3900-02	.3200-02	.3900-02	.6974-04	.5771-04	.6974-04	.4200-01	.2550	528.4
444	17.500	.40000	823.00	.6400-01	.6820-01	.8150-01	.1438-02	.1235-02	.1452-02	.8830	7.036	541.3
444	17.500	.50000	824.00	.7860-01	.6470-01	.7620-01	.1401-02	.1154-02	.1359-02	.8230	6.551	543.5
444	17.500	.60000	825.00	.5350-01	.4410-01	.5190-01	.9540-03	.7859-03	.9252-03	.5500	4.995	543.6
444	17.500	.70000	826.00	.6100-01	.5320-01	.5320-01	.1068-02	.8969-03	.1056-02	.6400	4.758	542.7
444	17.500	.80000	827.00	.5770-01	.4760-01	.5600-01	.1030-02	.8485-03	.9984-03	.6060	4.509	541.8
444	17.500	.90000	828.00	.4510-01	.3720-01	.4430-01	.3043-03	.6634-03	.7905-03	.4760	3.793	539.6
445	20.000	.10000+00	103.00	.2029	.1673	.2029	.3630-02	.2933-02	.3630-02	2.145	12.60	540.9
445	20.000	.15000	104.00	.1261	.1041	.1261	.2256-02	.1862-02	.2256-02	1.340	8.555	537.9
444	20.000	.25000	971.00	.2490-01	.2050-01	.2490-01	.4432-03	.3659-03	.4432-03	.2640	1.966	535.9
444	20.000	.35000	975.00	.4470-01	.3590-01	.4470-01	.7955-03	.6575-03	.7955-03	.4730	3.528	536.7
444	20.000	.45000	950.00	.3680-01	.3210-01	.3680-01	.6922-03	.5717-03	.6922-03	.4130	3.081	534.4
445	22.000	.50000-01	135.00	.2358	.1945	.2358	.1220-02	.3480-02	.4220-02	2.497	13.93	540.2
444	24.000	.20000	93.000	.9300-02	.7700-02	.9300-02	.1666-03	.1378-03	.1666-03	1.000+00	.6250	529.0
445	24.500	.10000+00	105.00	.2238	.1844	.2238	.4003-02	.3300-02	.4003-02	2.360	15.04	542.3
445	26.500	.15000	107.00	.1421	.1171	.1421	.2542-02	.2096-02	.2542-02	1.501	13.39	541.5
444	30.000	.92500	970.00	.1580-01	.1300-01	.1580-01	.2815-03	.2326-03	.2815-03	.1680	1.255	533.7

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B44)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(STO) BTU/R FT/SEC	H(TOI) BTU/R FT/SEC	H(TAN) BTU/R FT/SEC	QDOT BTU/ SEC	DTWOT DEG. R /SEC	TH DEG. R
444	30.200	.95000	974.00	.3610-01	.2980-01	.3610-01	.6434-03	.5313-03	.6434-03	.3853	2.858	535.4
444	30.000	.97500	979.00	.4050-01	.3340-01	.4050-01	.7217-03	.5961-03	.7217-03	.4310	3.213	534.4
444	31.500	.20000	108.00	.9740-01	.8030-01	.9740-01	.1742-02	.1437-02	.1742-02	1.034	10.50	538.5
444	32.000	.40000	831.00	.1070	.8620-01	.1037	.1907-02	.1572-02	.1850-02	1.126	7.849	540.8
444	32.000	.50000	832.00	.6630-01	.7110-01	.8370-01	.1533-02	.1267-02	.1492-02	.9030	6.493	543.8
444	32.000	.60000	833.00	.8030-01	.6620-01	.7750-01	.1433-02	.1180-02	.1389-02	.8410	5.674	544.2
444	32.000	.70000	834.00	.6390-01	.5660-01	.6150-01	.1139-02	.9383-03	.1104-02	.6690	5.144	543.2
444	32.000	.80000	835.00	.5240-01	.4320-01	.5080-01	.9346-03	.7703-03	.9064-03	.5510	3.962	541.8
444	32.000	.90000	836.00	.4530-01	.3730-01	.4450-01	.8074-03	.6660-03	.7935-03	.4780	3.555	539.4
444	32.000	.95000	837.00	.5100-01	.4210-01	.5040-01	.9095-03	.7502-03	.8985-03	.5380	4.146	539.1
444	32.000	.97500	838.00	.2670-01	.1890-01	.2250-01	.0540-03	.3348-03	.4016-03	.2410	1.930	535.3
444	32.000	1.0150	839.00	.2160-01	.1780-01	.2050-01	.3845-03	.3169-03	.3571-03	.2270	1.839	541.2
444	32.000	1.0300	840.00	.7380-01	.6080-01	.7050-01	.1317-02	.1084-02	.1257-02	.7720	6.034	544.5
444	32.000	1.0450	841.00	.1000+00	.6240-01	.9550-01	.1784-02	.1469-02	.1703-02	1.045	8.025	545.0
445	35.000	.50000-01	115.00	.1442	.1190	.1442	.2581-02	.2130-02	.2581-02	1.532	9.782	538.1
445	35.000	.20000	110.00	.1096	.5030-01	.1096	.1960-02	.1616-02	.1960-02	1.158	11.74	541.2
445	39.000	.10000+00	116.00	.1140	.9410-01	.1140	.2040-02	.1694-02	.2040-02	1.214	7.753	537.1
445	40.000	.76000-01	121.00	.7980-01	.6600-01	.7980-01	.1429-02	.1180-02	.1429-02	.8540	5.463	534.1
445	40.000	.15000	111.00	.1835	.1512	.1835	.3282-02	.2705-02	.3282-02	1.933	14.36	543.0
445	40.000	.20000	112.00	.1056	.8700-01	.1056	.1889-02	.1553-02	.1889-02	1.115	12.43	541.7
445	42.500	.50000-01	127.00	.1051	.8630-01	.1051	.1881-02	.1553-02	.1881-02	1.119	7.566	536.6
445	45.000	.15000	117.00	.9380-01	.7740-01	.9380-01	.1677-02	.1385-02	.1677-02	1.001	5.896	535.0
444	45.000	.95000	969.00	.2100-02	.1800-02	.2100-02	.3821-04	.3160-04	.3821-04	.2300-01	1.720	530.1
444	45.000	.95000	973.00	.5800-02	.4800-02	.5800-02	.1032-03	.8533-04	.1032-03	.6200-01	.4630	531.1
444	45.000	.97500	978.00	.1520-01	.1260-01	.1520-01	.2710-03	.2240-03	.2710-03	.1620	1.213	531.8
445	51.000	.20000	118.00	.5050-01	.4180-01	.5050-01	.9058-03	.7486-03	.9058-03	.5430	3.474	532.8
445	60.000	.50000-01	131.00	.4110-01	.3400-01	.4110-01	.7353-03	.6083-03	.7353-03	.4410	2.999	531.9
445	67.500	.20000	128.00	.3000-01	.2480-01	.3000-01	.5354-03	.4436-03	.5354-03	.3220	2.409	531.1
444	75.000	.97500	977.00	.5900-02	.8200-02	.9900-02	.1784-03	.1458-03	.1784-03	.1060	.7900	531.7
444	85.000	.97500	976.00	.4000-03	.3000-03	.4000-03	.7244-05	.5992-05	.7244-05	.4000-02	.3300-01	529.4
445	105.00	.40160	135.00	.2310-01	.1910-01	.2310-01	.4135-03	.3419-03	.4135-03	.2480	1.929	531.8
445	105.00	.60100	136.00	.2220-01	.1830-01	.2220-01	.3954-03	.3276-03	.3954-03	.2370	1.899	533.4
445	105.00	.70100	137.00	.1200-01	.9930-02	.1200-01	.2142-03	.1770-03	.2142-03	.1280	1.028	532.8
445	105.00	.80000	138.00	.6000-02	.4900-02	.6000-02	.1071-03	.8854-04	.1071-03	.6400-01	.5160	531.2
445	105.00	.80000	139.00	.8000-03	.7000-03	.8000-03	.1450-04	.1200-04	.1450-04	.9000-02	.7000-01	528.6
445	113.00	.60100	146.00	.1840-01	.1520-01	.1840-01	.3286-03	.2716-03	.3286-03	.1970	1.578	532.5
445	116.00	.60100	147.00	.1620-01	.1340-01	.1620-01	.2892-03	.2391-03	.2892-03	.1730	1.388	532.9
445	116.00	.75100	148.00	.2500-02	.2000-02	.2500-02	.4384-04	.3626-04	.4384-04	.2600-01	.2120	530.0
445	120.00	.10000+00	132.00	.1220-01	.1010-01	.1220-01	.2181-03	.1804-03	.2181-03	.1310	.7970	529.4
445	120.00	.80500	247.00	.5100-02	.4200-02	.5100-02	.9126-04	.7556-04	.9126-04	.5500-01	.4580	526.8
445	120.00	.82300	248.00	.7600-02	.6300-02	.7600-02	.1366-03	.1131-03	.1366-03	.8300-01	.6850	527.3
445	120.00	.85200	249.00	.8100-02	.6700-02	.8100-02	.1458-03	.1207-03	.1458-03	.8800-01	.6480	526.8
445	130.00	.80500	253.00	.6300-02	.5200-02	.6300-02	.1125-03	.9318-04	.1125-03	.6800-01	.5480	526.6

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

PUR NUMBER	THETA	^/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(970) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
445	130.00	.82900	254.00	.1220-01	.1010-01	.1220-01	.2176-03	.1802-03	.2176-03	.1320	1.027	526.5
445	130.00	.86200	255.00	.1310-01	.1090-01	.1310-01	.2350-03	.1946-03	.2350-03	.1420	1.180	526.6
445	135.00	.40100	142.00	.2200-02	.1800-02	.2200-02	.3916-04	.3240-04	.3916-04	.2400-01	.1840	528.8
445	135.00	.50100	143.00	.3500-02	.2900-02	.3500-02	.6268-04	.5185-04	.6268-04	.3800-01	.3120	530.2
445	135.00	.60100	144.00	.4100-02	.3400-02	.4100-02	.7396-04	.6117-04	.7396-04	.4500-01	.3460	530.0
445	135.00	.70100	145.00	.3000-02	.2400-02	.3000-02	.5285-04	.4373-04	.5285-04	.3200-01	.2560	529.0
445	140.00	.18000	85.000	.2500-02	.2000-02	.2500-02	.4420-04	.3657-04	.4420-04	.2700-01	.2060	529.5
445	140.00	.19500	87.000	.6400-02	.5300-02	.6400-02	.1141-03	.9445-04	.1141-03	.6900-01	.5340	528.2
445	145.00	.80500	259.00	.5500-02	.4600-02	.5500-02	.9865-04	.8169-04	.9865-04	.6000-01	.4660	526.1
446	145.00	.82300	260.00	.7700-02	.6400-02	.7700-02	.1377-03	.1142-03	.1377-03	.8400-01	.6400	523.0
446	145.00	.86200	261.00	.3700-02	.3100-02	.3700-02	.6675-04	.5535-04	.6675-04	.4100-01	.3400	523.0
445	150.00	.16000	85.000	.5600-02	.4600-02	.5600-02	.9992-04	.8269-04	.9992-04	.6000-01	.4520	528.2
445	150.00	.18000	84.000	.8300-02	.7400-02	.8300-02	.1600-03	.1324-03	.1600-03	.9700-01	.7230	528.2
445	150.00	.19000	82.000	.2000-03	.1000-03	.2000-03	.2937-05	.2426-05	.2937-05	.2000-02	.1300-01	534.2
445	155.00	.16000	80.000	.6700-02	.5600-02	.6700-02	.1204-03	.9566-04	.1204-03	.7300-01	.5440	528.2
445	155.00	.18000	83.000	.4000-03	.3000-03	.4000-03	.6715-05	.5548-05	.6715-05	.4000-02	.3000-01	534.1
445	150.00	.18000	77.000	.2230-01	.1900-01	.2230-01	.4099-03	.3391-03	.4099-03	.2470	1.979	529.6
445	175.00	.15300	81.000	.1530-01	.1250-01	.1530-01	.2729-03	.2258-03	.2729-03	.1640	1.191	529.1
445	175.00	.16500	79.000	.1530-01	.1250-01	.1530-01	.2733-03	.2261-03	.2733-03	.1650	1.232	529.1
445	175.00	.17500	78.000	.3130-01	.2590-01	.3130-01	.5609-03	.4639-03	.5609-03	.3380	2.443	530.1
444	180.00	.10000-01	59.000	.1826	.1506	.1826	.3255-02	.2685-02	.3255-02	1.926	14.33	539.4
444	180.00	.25000-01	60.000	.5520-01	.4570-01	.5520-01	.9851-03	.8142-03	.9851-03	.5900	4.262	532.4
444	180.00	.50000-01	61.000	.2420-01	.2000-01	.2420-01	.4311-03	.3555-03	.4311-03	.2590	1.658	530.6
444	180.00	.75000-01	62.000	.1340-01	.1100-01	.1340-01	.2392-03	.1970-03	.2392-03	.1430	.9180	530.0
444	180.00	.10000+00	63.000	.9800-02	.8100-02	.9800-02	.1741-03	.1407-03	.1741-03	.1050	.6910	529.6
444	180.00	.12500	64.000	.8900-02	.7300-02	.8900-02	.1581-03	.1307-03	.1581-03	.9500-01	.6670	529.6
444	180.00	.15000	65.000	.1000-01	.8300-02	.1000-01	.1789-03	.1479-03	.1789-03	.1080	.7540	529.6
444	180.00	.16000	66.000	.2170-01	.1800-01	.2170-01	.3877-03	.3206-03	.3877-03	.2330	1.305	530.6
444	180.00	.17000	67.000	.6390-01	.5280-01	.6390-01	.1139-02	.9408-03	.1139-02	.6800	3.810	533.4
444	180.00	.20000	69.000	.1480-01	.1220-01	.1480-01	.2631-03	.2176-03	.2631-03	.1580	.9860	529.9
444	180.00	.40100	72.000	.4700-02	.3800-02	.4700-02	.8296-04	.6861-04	.8296-04	.5000-01	.4270	530.0
444	180.00	.50000	73.000	.4600-02	.3900-02	.4600-02	.8273-04	.6842-04	.8273-04	.5000-01	.4250	530.4
444	180.00	.60100	74.000	.5800-02	.4800-02	.5800-02	.1032-03	.8532-04	.1032-03	.6200-01	.5130	530.4
444	180.00	.70100	75.000	.5800-02	.4800-02	.5800-02	.1037-03	.8579-04	.1037-03	.6200-01	.5000	529.8

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## FUSELAGE

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1844)

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = -30.00 SPDBRK = 40.00  
BOFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW LEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
438	7.940	1.017	30.04	.0000	180.0	209.6	.2300-01	1268.	93.10	.9950	3755.	.2031-04
439	7.940	1.017	30.06	.0000	180.0	209.5	.2300-01	1267.	93.10	.9950	3754.	.2031-04
440	7.940	1.016	30.02	.0000	180.0	209.1	.2200-01	1267.	93.10	.9930	3753.	.2028-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
438	7453-07	2439-01	0.0175
439	7494-07	2439-01	.4034-01
440	7493-07	2436-01	.4037-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TM DEG. R
438	.0000	.0000	1.0000	.7695	.6290	.6612	.1877-01	.1534-01	.1613-01	10.65	58.43	573.6
438	.0000	.5000-02	2.0000	.7445	.6074	.6109	.1616-01	.1482-01	.1490-01	10.20	69.78	579.2
438	.0000	.1000-01	3.0000	.6256	.5122	.5295	.1526-01	.1249-01	.1291-01	8.737	58.27	568.3
438	.0000	.2000-01	4.0000	.3953	.3256	.3497	.9643-02	.7943-02	.8530-02	5.710	31.73	548.7
438	.0000	.3000-01	5.0000	.2634	.2368	.2615	.7050-02	.5824-02	.6378-02	4.216	23.49	543.7
438	.0000	.4000-01	6.0000	.2582	.2214	.2456	.6541-02	.5400-02	.5990-02	3.923	21.88	541.0
438	.0000	.5000-01	7.0000	.2297	.1865	.2114	.5579-02	.4513-02	.5157-02	3.317	22.37	546.4
438	.0000	.6000-01	8.0000	.2243	.1850	.2089	.5471-02	.4513-02	.5095-02	3.270	20.82	543.2
438	.0000	.7000-01	9.0000	.1935	.1536	.1815	.4721-02	.3833-02	.4428-02	2.815	19.59	544.7
438	.0000	.8000-01	10.000	.1526	.1259	.1440	.3722-02	.3071-02	.3512-02	2.226	15.50	542.9
438	.0000	.9000-01	11.000	.1482	.1224	.1404	.3616-02	.2935-02	.3426-02	2.174	13.87	539.7
438	.0000	.1000-00	12.000	.1328	.1097	.1263	.3239-02	.2675-02	.3031-02	1.949	11.77	539.0
438	.0000	.1200	14.000	.1179	.9740-01	.1127	.2875-02	.2377-02	.2750-02	1.739	9.725	536.0
438	.0000	.1300	15.000	.1105	.9130-01	.1058	.2694-02	.2227-02	.2581-02	1.628	9.582	536.5
438	.0000	.1400	16.000	.1028	.8500-01	.9860-01	.2507-02	.2072-02	.2405-02	1.514	9.673	536.9
438	.0000	.1600	18.000	.1028	.9340-01	.1087	.2759-02	.2279-02	.2652-02	1.664	10.33	537.7
438	.0000	.1700	19.000	.1060	.8760-01	.1020	.2585-02	.2136-02	.2488-02	1.558	9.943	538.4

AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 76

RUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAW)	H(OTO) BTU/ R FT2SEC	H(ITA) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
438	.00000	.18000	20.000	.1054	.8710-01	.1015	.2571-02	.2124-02	.2477-02	9.885	538.5
438	.00000	.19000	21.000	.1111	.9190-01	.1072	.2711-02	.2241-02	.2615-02	10.48	536.2
438	.00000	.20000	22.000	.9810-01	.8100-01	.9480-01	.2393-02	.1977-02	.2311-02	9.202	538.4
438	.00000	.21000	23.000	.8910-01	.7350-01	.8630-01	.2174-02	.1796-02	.2105-02	8.372	537.8
438	.00000	.22000	24.000	.8820-01	.7290-01	.8550-01	.2151-02	.1777-02	.2086-02	8.278	538.0
438	.00000	.23000	25.000	.8110-01	.6950-01	.7870-01	.1979-02	.1634-02	.1919-02	7.597	539.7
438	.00000	.24000	26.000	.8430-01	.6950-01	.6700-01	.2055-02	.1656-02	.1993-02	7.839	542.2
438	.00000	.25000	27.000	.8210-01	.6770-01	.7950-01	.2002-02	.1652-02	.1942-02	7.836	543.7
438	.00000	.26000	28.000	.7330-01	.6040-01	.7110-01	.1788-02	.1474-02	.1734-02	7.164	545.4
438	.00000	.27000	29.000	.6820-01	.5620-01	.6610-01	.1663-02	.1371-02	.1613-02	6.875	546.4
438	.00000	.28000	30.000	.6630-01	.5510-01	.6490-01	.1632-02	.1344-02	.1593-02	7.169	548.1
438	.00000	.29000	31.000	.6140-01	.5050-01	.5930-01	.1497-02	.1233-02	.1452-02	6.576	548.1
438	.00000	.30000	32.000	.5630-01	.4780-01	.5630-01	.1415-02	.1166-02	.1372-02	6.200	549.4
438	.00000	.31000	33.000	.5500-01	.4530-01	.5330-01	.1341-02	.1104-02	.1300-02	6.076	549.5
438	.00000	.32000	34.000	.5260-01	.4330-01	.5100-01	.1282-02	.1056-02	.1243-02	5.616	549.4
438	.00000	.33000	35.000	.5350-01	.4720-01	.5560-01	.1333-02	.1151-02	.1335-02	6.125	549.2
438	.00000	.34000	36.000	.5350-01	.4440-01	.5280-01	.1315-02	.1084-02	.1290-02	5.977	548.1
438	.00000	.35000	37.000	.5050-01	.4160-01	.4960-01	.1232-02	.1015-02	.1210-02	5.262	545.8
438	.00000	.36000	38.000	.4180-01	.3440-01	.4110-01	.1019-02	.8402-03	.1004-02	5.017	544.0
438	.00000	.37000	39.000	.2700-01	.2220-01	.2760-01	.6575-03	.5425-03	.6496-03	3.246	542.9
438	.00000	.38000	40.000	.1830-01	.1510-01	.1810-01	.4688-03	.3637-03	.4425-03	3.216	542.1
438	.00000	.39000	41.000	.3250-01	.2630-01	.3230-01	.7527-03	.6255-03	.7874-03	3.462	550.8
438	.00000	.40000	42.000	.1422	.1169	.1412	.3468-02	.2852-02	.3445-02	15.01	554.8
438	.00000	.41000	43.000	.2276	.1855	.2261	.5552-02	.4522-02	.5515-02	26.68	563.7
438	.00000	.42000	44.000	.1070-01	.6930-02	.1070-01	.2612-03	.2164-03	.2612-03	1.426	528.2
438	.00000	.43000	45.000	.1530-01	.1270-01	.1530-01	.3738-03	.3096-03	.3738-03	1.426	527.1
438	.00000	.44000	46.000	.2400-02	.2003-02	.2400-02	.5931-04	.4916-04	.5931-04	9.529	546.2
438	.00000	.45000	47.000	.8270-01	.6810-01	.8020-01	.2016-02	.1662-02	.1955-02	8.822	549.4
438	.00000	.46000	48.000	.7710-01	.6350-01	.7470-01	.1890-02	.1548-02	.1823-02	6.774	550.1
438	.00000	.47000	49.000	.5290-01	.4360-01	.5130-01	.1291-02	.1053-02	.1251-02	6.433	551.3
438	.00000	.48000	50.000	.6030-01	.4980-01	.5950-01	.1475-02	.1214-02	.1430-02	6.096	548.9
438	.00000	.49000	51.000	.5700-01	.4590-01	.5530-01	.1390-02	.1145-02	.1348-02	5.043	545.6
438	.00000	.50000	52.000	.4370-01	.3620-01	.4290-01	.1066-02	.8785-03	.1047-02	17.57	541.0
438	.00000	.51000	53.000	.2048	.1691	.2048	.4955-02	.4123-02	.4955-02	11.54	539.0
438	.00000	.52000	54.000	.1233	.1019	.1233	.3007-02	.2484-02	.3007-02	2.500	538.0
438	.00000	.53000	55.000	.2220-01	.1830-01	.2280-01	.5555-03	.4593-03	.5555-03	4.960	539.9
438	.00000	.54000	56.000	.4550-01	.3750-01	.4550-01	.1109-02	.9158-03	.1109-02	4.552	537.0
438	.00000	.55000	57.000	.4160-01	.3430-01	.4160-01	.1019-02	.8359-03	.1011-02	19.00	539.6
438	.00000	.56000	58.000	.2325	.1920	.2325	.5558-02	.4681-02	.5558-02	19.00	528.8
438	.00000	.57000	59.000	.1050-01	.6700-02	.1050-01	.2554-03	.2124-03	.2554-03	20.45	542.8
438	.00000	.58000	60.000	.2205	.1819	.2205	.5376-02	.4435-02	.5376-02	18.65	542.5
438	.00000	.59000	61.000	.1435	.1184	.1435	.3498-02	.2887-02	.3498-02	1.693	535.9
438	.00000	.60000	62.000	.1540-01	.1270-01	.1540-01	.3752-03	.3102-03	.3752-03		

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1844)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(1AM) BTU/ R F12SEC	QDOT BTU/ R F12SEC	OTWDT DEG. R /SEC	TW DEG. R
438	30.000	.55000	974.00	.3650-01	.3020-01	.3650-01	.8912-03	.7363-03	.8912-03	.5370	3.999	538.3
439	30.000	.97500	9.00	.2260-01	.1880-01	.2280-01	.5557-03	.4591-03	.5557-03	.3350	2.493	538.4
439	31.500	.20000	109.00	.5820-01	.7940-01	.9820-01	.2346-02	.1936-02	.2346-02	1.405	14.25	541.3
439	32.000	.40000	831.00	.1261	.8750-01	.1029	.2589-02	.2135-02	.2589-02	1.543	10.74	545.0
439	32.000	.50000	832.00	.9230-01	.7600-01	.6950-01	.2251-02	.1653-02	.2132-02	1.330	9.534	549.7
439	32.000	.60000	833.00	.7560-01	.6220-01	.7330-01	.1844-02	.1517-02	.1787-02	1.087	7.310	551.3
439	32.000	.70000	834.00	.6220-01	.5110-01	.6030-01	.1259-02	.1037-02	.1259-02	.6920	6.821	552.8
439	32.000	.80000	835.00	.5150-01	.4250-01	.5000-01	.1031-02	.0833-02	.1031-02	.7460	5.350	548.2
439	32.000	.90000	836.00	.4250-01	.3490-01	.4150-01	.0833-02	.0635-02	.1031-02	.6150	4.562	548.9
439	32.000	.95000	837.00	.5630-01	.4640-01	.5560-01	.1374-02	.1133-02	.1374-02	.8180	6.283	545.1
439	32.000	.97500	838.00	.2160-01	.1800-01	.2160-01	.5325-03	.4335-03	.5325-03	.3190	2.541	541.8
439	32.000	.99000	839.00	.3260-01	.2700-01	.3130-01	.8000-03	.6500-03	.8000-03	.4700	3.791	553.1
439	32.000	1.00000	840.00	.1143	.9300-01	.1090	.2787-02	.2290-02	.2691-02	1.629	12.65	557.6
439	32.000	1.0450	841.00	.1243	.1243	.1444	.3233-02	.2630-02	.3465-02	2.151	16.40	558.5
439	35.000	.20000	110.00	.1042	.8590-01	.1430	.2500-02	.2095-02	.2500-02	2.098	13.39	538.3
439	33.000	.16000-01	116.00	.1104	.9120-01	.1104	.2691-02	.2294-02	.2691-02	1.514	15.33	544.0
439	40.000	.75000-01	121.00	.7870-01	.6510-01	.7870-01	.1919-02	.1587-02	.1919-02	1.164	7.447	533.6
439	40.000	.15000	111.00	.1739	.1433	.1739	.4239-02	.3494-02	.4239-02	2.522	18.72	545.0
439	40.000	.20000	112.00	.1034	.6530-01	.1034	.2521-02	.2079-02	.2521-02	1.504	16.75	543.7
439	42.500	.50000-01	127.00	.1022	.8450-01	.1022	.2491-02	.2059-02	.2491-02	1.341	10.22	535.2
439	45.000	.95000	969.00	.2000-02	.1700-02	.2000-02	.4995-04	.4135-04	.4995-04	.3000-01	.2280	531.0
439	45.000	.97500	973.00	.5300-02	.4400-02	.5300-02	.1305-03	.1080-03	.1305-03	.7900-01	.5930	532.7
439	45.000	.99000	978.00	.1510-01	.1250-01	.1510-01	.3689-03	.3051-03	.3689-03	.2240	1.671	534.0
439	51.000	.20000	118.00	.4760-01	.3940-01	.4760-01	.1162-02	.0914-02	.1162-02	.7060	4.524	532.0
439	60.000	.50000-01	131.00	.3770-01	.3120-01	.3770-01	.9189-03	.7608-03	.9189-03	.5600	3.609	530.3
439	67.500	.20000	128.00	.2590-01	.2480-01	.2590-01	.7290-03	.6035-03	.7290-03	.4440	3.321	530.8
439	75.000	.97500	977.00	.1120-01	.9200-02	.1120-01	.2725-03	.2355-03	.2725-03	.1650	1.236	533.4
439	85.000	.50000	976.00	.1600-02	.1300-02	.1600-02	.3501-04	.3253-04	.3501-04	.2400-01	.1780	530.9
439	105.00	.40100	135.00	.2300-01	.1900-01	.2300-01	.5609-03	.4542-03	.5609-03	.3410	2.650	532.1
439	105.00	.50100	136.00	.3550-01	.2120-01	.3550-01	.6249-03	.5168-03	.6249-03	.3780	3.015	534.9
439	105.00	.60100	137.00	.1340-01	.1110-01	.1340-01	.2719-03	.2312-03	.2719-03	.1990	1.590	534.1
439	105.00	.70100	138.00	.5500-02	.5500-02	.5500-02	.1616-03	.1338-03	.1616-03	.9800-01	.7880	532.0
439	105.00	.80000	139.00	.5000-03	.5000-03	.5000-03	.1350-04	.1127-04	.1350-04	.8000-02	.6700-01	528.4
439	116.00	.60100	140.00	.2200-01	.1900-01	.2200-01	.5375-03	.4446-03	.5375-03	.3250	2.608	534.0
439	116.00	.70100	141.00	.1880-01	.1560-01	.1880-01	.4590-03	.3756-03	.4590-03	.2780	2.225	534.4
439	116.00	.80100	142.00	.5700-02	.4800-02	.5700-02	.1393-03	.1159-03	.1393-03	.6840	.6840	530.7
439	120.00	.90000-01	143.00	.1100-01	.9100-02	.1100-01	.2353-03	.2033-03	.2353-03	.1640	.9390	527.6
439	120.00	.95000	144.00	.6000-02	.5000-02	.6000-02	.7755-04	.6430-04	.7755-04	.4800-01	.3960	525.4
439	120.00	.97500	145.00	.5500-02	.4500-02	.5500-02	.1336-03	.1108-03	.1336-03	.8200-01	.6820	525.8
439	120.00	.99000	146.00	.1000-01	.8300-02	.1000-01	.2014-03	.1700-03	.2014-03	.1490	1.097	526.0
439	130.00	.60500	253.00	.4700-02	.3900-02	.4700-02	.1148-03	.0920-04	.1148-03	.7100-01	.5680	525.2

AEDC VNF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

DATE 25 AUG 75

PUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19T01 BTU/ R FT2SEC	H1T01 BTU/ R FT2SEC	H1TAW BTU/ F FT2SEC	ODOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
439	130.00	.82800	254.00	.6800-02	.7300-02	.8800-02	.2134-03	.1770-03	.2134-03	.1310	1.024	525.1
439	130.00	.86200	255.00	.1330-01	.1100-01	.1330-01	.3240-03	.2666-03	.3240-03	.1990	1.652	526.0
439	130.00	.70100	142.00	.1500-02	.1300-02	.1670-02	.3931-04	.3174-04	.3931-04	.2300-01	1.820	528.6
439	135.00	.50100	143.00	.2700-02	.2200-02	.2700-02	.6468-04	.5356-04	.6468-04	.3700-01	2.910	531.0
439	135.00	.60100	144.00	.2500-02	.2100-02	.2500-02	.6147-04	.5189-04	.6147-04	.3700-01	2.910	529.3
439	135.00	.70100	145.00	.2600-02	.2200-02	.2600-02	.6412-04	.5316-04	.6412-04	.3900-01	3.150	529.3
439	140.00	.18000	85.000	.9100-02	.7500-02	.9100-02	.2220-03	.1840-03	.2220-03	.1360	1.059	525.2
439	140.00	.19500	87.000	.7100-02	.5900-02	.7100-02	.1730-03	.1433-03	.1730-03	.1050	.8220	527.2
439	145.00	.80500	259.00	.4700-02	.3900-02	.4700-02	.1155-03	.9584-04	.1155-03	.7100-01	.5550	524.8
440	145.00	.82200	260.00	.1030-01	.8500-02	.1030-01	.2506-03	.2079-03	.2506-03	.1550	1.172	523.2
440	145.00	.86200	261.00	.2700-02	.2300-02	.2700-02	.6352-04	.5524-04	.6352-04	.4100-01	.3400	525.1
440	150.00	.15000	65.000	.7100-02	.5900-02	.7100-02	.1732-03	.1435-03	.1732-03	.1050	.7980	526.6
440	150.00	.16000	66.000	.1050-01	.8700-02	.1050-01	.2534-03	.2125-03	.2534-03	.1570	1.178	526.7
440	150.00	.19000	82.000	.4000-03	.3000-03	.4000-03	.2089-03	.1730-03	.2089-03	.1280	.9590	527.1
440	155.00	.16000	80.000	.8500-02	.7100-02	.8500-02	.2089-03	.1730-03	.2089-03	.1280	.9590	527.1
440	160.00	.18000	77.000	.1820-01	.1500-01	.1820-01	.4427-03	.3557-03	.4427-03	.2710	2.171	528.6
440	175.00	.15000	81.000	.2300-01	.1900-01	.2300-01	.5497-03	.4536-03	.5497-03	.3420	2.479	528.6
440	175.00	.16500	79.000	.1860-01	.1540-01	.1860-01	.3750-03	.3750-03	.4527-03	.2770	2.074	528.1
440	175.00	.17500	78.000	.3940-01	.3250-01	.3940-01	.9613-03	.7960-03	.9613-03	.5870	4.245	530.0
440	180.00	.10000-01	59.000	.1835	.1515	.1935	.4476-02	.3696-02	.4476-02	2.686	19.98	540.8
440	180.00	.25000-01	60.000	.5290-01	.4380-01	.5290-01	.1290-02	.1068-02	.1290-02	.7840	5.670	532.8
440	180.00	.50000-01	61.000	.2290-01	.1890-01	.2290-01	.5574-03	.4616-03	.5574-03	.3410	2.183	530.0
440	180.00	.75000-01	62.000	.1270-01	.1050-01	.1270-01	.3106-03	.2573-03	.3106-03	.1900	1.219	529.0
440	180.00	.10000-00	63.000	.9500-02	.7900-02	.9500-02	.2319-03	.1921-03	.2319-03	.1420	.9370	529.0
440	180.00	.12500	64.000	.9500-02	.7900-02	.9500-02	.2315-03	.1918-03	.2315-03	.1420	.9350	528.7
440	180.00	.15000	65.000	.1350-01	.1170-01	.1350-01	.2745-03	.2745-03	.3315-03	.2030	1.422	529.4
440	180.00	.16000	66.000	.3650-01	.3190-01	.3650-01	.5339-03	.7779-03	.5339-03	.5730	3.204	532.4
440	180.00	.17000	67.000	.7450-01	.6160-01	.7450-01	.1817-02	.1503-02	.1817-02	1.102	6.164	534.6
440	180.00	.20000	69.000	.1530-01	.1260-01	.1530-01	.3723-03	.3083-03	.3723-03	.2270	1.417	530.0
440	180.00	.42100	72.000	.5200-02	.4300-02	.5200-02	.1270-03	.1051-03	.1270-03	.7700-01	.6620	531.0
440	180.00	.50000	73.000	.7700-02	.6400-02	.7700-02	.1869-03	.1563-03	.1869-03	.1150	.9330	532.2
440	180.00	.60100	74.000	.7200-02	.5900-02	.7200-02	.1744-03	.1444-03	.1744-03	.1060	.8780	532.2
440	180.00	.70100	75.000	.8100-02	.6700-02	.8100-02	.1984-03	.1642-03	.1984-03	.1210	.9690	531.7

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CH-19B (AEDC V-10-57A) ORBITER FUSELAGE

(RV1644)

FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = -30.00 SPOBRK = 40.00  
 BDFLAP = 15.00 MACH = 8.000

## \*\*TEST CONDITIONS\*\*

RUN NUMBER	MACH	PN/L X10 <sup>6</sup> /FT	ALPHA DEC.	YAW DEC.	PHI MODEL DEC.	PO PSIA	P PSIA	TO DEC. R	T DEC. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
432	7.980	1.975	30.05	.0000	180.0	430.2	.4500-01	1303.	94.90	1.536	3808.	.3961-04
433	7.980	1.505	30.05	.0000	130.0	429.6	.4500-01	1297.	94.50	1.994	3800.	.3972-04
434	7.980	1.982	30.05	.0000	180.0	428.3	.4500-01	1296.	94.40	1.988	3798.	.3964-04

RUN NUMBER	MU	HRF BTU/ P F/SEC	3T FR R =
432	7.937-07	.3471-01	0.0175
433	.7605-07	.3466-01	.2897-01
434	.7597-07	.3461-01	.2894-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF K=1.0	H/HREF (TAW)	H1(TO) BTU/ R FT2SEC	H1(TO) BTU/ R FT2SEC	H1(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT CFG. R /SEC	TH DEG. R
432	.00000	.0000	1.0000	.7767	.6344	.6670	.2696-01	.2602-01	.2315-01	15.66	85.18	591.8
432	.00000	.50000-02	2.0000	.7414	.6038	.6073	.2574-01	.2096-01	.2108-01	14.72	99.60	600.8
432	.00000	.10000-01	3.0000	.6055	.4955	.5122	.2102-01	.1720-01	.1778-01	12.33	81.54	585.8
432	.00000	.20000-01	4.0000	.3987	.3290	.3531	.1384-01	.1142-01	.1226-01	8.509	47.07	557.8
432	.00000	.30000-01	5.0000	.2768	.2269	.2504	.9610-02	.7945-02	.8691-02	5.975	33.17	550.8
432	.00000	.40000-01	6.0000	.2542	.2104	.2330	.8824-02	.7302-02	.8090-02	5.519	30.69	547.2
432	.00000	.50000-01	7.0000	.2241	.1851	.2073	.7780-02	.6424-02	.7196-02	4.804	32.25	555.1
432	.00000	.60000-01	8.0000	.2260	.1868	.2107	.7846-02	.6486-02	.7313-02	4.073	30.91	551.3
432	.00000	.70000-01	9.0000	.1894	.1565	.1776	.6576-02	.5433-02	.6172-02	4.073	28.22	553.3
432	.00000	.80000-01	10.000	.1535	.1270	.1450	.5329-02	.4409-02	.5032-02	3.326	23.11	548.5
432	.00000	.90000-01	11.000	.1427	.1182	.1353	.4954-02	.4102-02	.4697-02	3.109	17.78	544.9
432	.00000	.10000+00	12.000	.1306	.1082	.1243	.4534-02	.3755-02	.4315-02	2.847	17.14	544.6
432	.00000	.12000	14.000	.1188	.9840-01	.1137	.4123-02	.3417-02	.3945-02	2.593	14.48	542.5
432	.00000	.13000	15.000	.1123	.9310-01	.1077	.3900-02	.3231-02	.3738-02	2.454	14.39	543.3
432	.00000	.14000	16.000	.1034	.8550-01	.9920-01	.3589-02	.2973-02	.3445-02	2.257	14.37	543.9
432	.00000	.15000	18.000	.1085	.8380-01	.1043	.3766-02	.3119-02	.3622-02	2.362	14.61	545.5
432	.00000	.16000	18.000	.1055	.8730-01	.1016	.3661-02	.3031-02	.3525-02	2.293	14.58	546.4

REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

CH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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(RV1244)

RUN NUMBER	THETA	X/Y	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT/SEC	H(10) BTU/ R FT/SEC	H(11W) BTU/ R FT/SEC	ODOT BTU/ FT/SEC	DTWDT DEG. R /SEC	TW DEG. R
432	.00000	.18000	20.000	.1066	.8820-01	.1027	.3701-02	.3063-02	.2567-02	2.316	14.72	546.8
432	.00000	.19000	21.000	.9820-01	.8140-01	.9180-01	.3410-02	.2824-02	.3291-02	2.143	13.64	544.3
432	.00000	.20000	22.000	.1002	.8230-01	.9680-01	.3477-02	.2878-02	.3360-02	2.177	13.84	546.7
432	.00000	.22500	23.000	.9420-01	.7800-01	.9130-01	.3273-02	.2707-02	.3168-02	2.050	13.04	545.8
432	.00000	.25000	801.00	.9000-01	.7450-01	.8730-01	.3124-02	.2586-02	.3032-02	1.957	12.45	546.1
432	.00000	.30000	802.00	.8100-01	.6710-01	.7850-01	.2813-02	.2328-02	.2729-02	1.760	11.18	547.0
432	.00000	.35000	803.00	.8150-01	.6740-01	.7910-01	.2939-02	.2412-02	.2831-02	1.759	11.16	550.6
432	.00000	.40000	804.00	.8150-01	.6550-01	.7910-01	.2939-02	.2412-02	.2831-02	1.759	11.16	551.3
432	.00000	.45000	805.00	.7450-01	.6160-01	.7230-01	.2535-02	.2137-02	.2509-02	1.602	10.77	552.9
432	.00000	.50000	806.00	.6730-01	.5560-01	.6530-01	.2335-02	.1929-02	.2265-02	1.444	10.58	554.1
432	.00000	.55000	807.00	.6700-01	.5530-01	.6500-01	.2327-02	.1921-02	.2257-02	1.433	10.58	556.7
432	.00000	.60000	808.00	.6010-01	.4950-01	.5830-01	.2086-02	.1721-02	.2023-02	1.284	9.474	557.0
432	.00000	.65000	809.00	.5520-01	.4550-01	.5350-01	.1915-02	.1580-02	.1857-02	1.176	8.665	558.8
432	.00000	.70000	810.00	.5350-01	.4420-01	.5200-01	.1861-02	.1534-02	.1804-02	1.139	8.681	560.3
432	.00000	.75000	811.00	.5420-01	.4470-01	.5250-01	.1880-02	.1550-02	.1824-02	1.151	8.473	560.8
432	.00000	.80000	812.00	.5550-01	.4930-01	.5870-01	.2100-02	.1731-02	.2036-02	1.284	9.454	561.1
432	.00000	.85000	813.00	.5550-01	.4910-01	.5840-01	.2059-02	.1706-02	.2029-02	1.265	9.637	561.2
432	.00000	.90000	814.00	.5740-01	.4730-01	.5640-01	.1991-02	.1643-02	.1957-02	1.224	8.737	557.8
432	.00000	.92500	815.00	.4480-01	.3990-01	.4770-01	.1656-02	.1387-02	.1655-02	1.036	8.493	556.0
432	.00000	.95000	816.00	.4480-01	.3700-01	.4430-01	.1556-02	.1284-02	.1537-02	.9580	7.857	556.8
432	.00000	.97500	817.00	.2610-01	.2160-01	.2590-01	.9082-03	.7482-03	.8976-03	.5590	4.565	555.8
432	.00000	1.0150	818.00	.1255	.1039	.1257	.4393-02	.3607-02	.4363-02	2.628	19.22	574.3
432	.00000	1.0300	819.00	.3030	.2480	.3009	.1052-01	.8607-02	.1045-01	6.173	44.90	585.7
432	.00000	1.0500	821.00	.2334	.2393	.2914	.1019-01	.8308-02	.1011-01	5.871	48.09	596.2
432	.00000	.15000	89.000	.7400-02	.6200-02	.7400-02	.2579-03	.2143-03	.2579-03	.1650	1.002	531.6
432	.00000	.20000	91.000	.1740-01	.1450-01	.1740-01	.6047-03	.5024-03	.6047-03	.3870	2.406	533.3
432	.00000	.50000	90.000	.4300-02	.4000-02	.4800-02	.1657-03	.1377-03	.1657-03	.1060	.6440	531.0
432	.00000	.40000	823.00	.8280-01	.6830-01	.8030-01	.2873-02	.2371-02	.2786-02	1.769	13.99	555.7
432	.00000	.50000	824.00	.7700-01	.6350-01	.7470-01	.2673-02	.2203-02	.2593-02	1.639	12.94	559.5
432	.00000	.60000	825.00	.5240-01	.4320-01	.5080-01	.1820-02	.1501-02	.1765-02	1.115	9.862	559.6
432	.00000	.70000	826.00	.6050-01	.4930-01	.5870-01	.2100-02	.1731-02	.2036-02	1.284	9.454	561.1
432	.00000	.80000	827.00	.6130-01	.5050-01	.5940-01	.2128-02	.1753-02	.2063-02	1.301	9.580	561.1
432	.00000	.90000	828.00	.5080-01	.4190-01	.4990-01	.1754-02	.1455-02	.1733-02	1.084	8.564	558.0
433	.00000	.10000	103.00	.2043	.1688	.2043	.7082-02	.5850-02	.7082-02	4.363	25.48	551.6
433	.00000	.15000	104.00	.1234	.1021	.1234	.4277-02	.3538-02	.4277-02	2.654	16.87	547.3
432	.00000	.25000	971.00	.2700-01	.2240-01	.2700-01	.9360-03	.7767-03	.9360-03	.5880	4.367	545.3
432	.00000	.35000	975.00	.4930-01	.4080-01	.4930-01	.1713-02	.1417-02	.1713-02	1.070	7.929	548.0
432	.00000	.45000	963.00	.4630-01	.3680-01	.4630-01	.1627-02	.1347-02	.1627-02	1.022	7.591	544.2
433	.00000	.55000	933.00	.2335	.1930	.2335	.8095-02	.6690-02	.8095-02	5.002	27.78	549.8
432	.00000	.65000	934.00	.1190-01	.9900-02	.1190-01	.4132-03	.3433-03	.4132-03	.2640	1.646	532.8
433	.00000	.75000	935.00	.2198	.1814	.2198	.7620-02	.6283-02	.7620-02	4.672	29.58	554.6
433	.00000	.85000	167.00	.1414	.1167	.1414	.4901-02	.4045-02	.4901-02	3.033	26.62	554.9
432	.00000	.95000	970.00	.1810-01	.1500-01	.1810-01	.6281-03	.5206-03	.6281-03	.3960	2.946	541.8

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B44)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(10) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TW DEG. R
432	30.000	.95000	974.00	.4080-01	.3380-01	.4080-01	.1416-02	.1173-02	.1416-02	.8880	6.589	545.6
433	30.000	.97500	979.00	.4270-01	.3540-01	.4270-01	.1483-02	.1228-02	.1483-02	.9320	6.916	544.5
433	30.000	.20000	108.00	.9590-01	.7920-01	.9590-01	.3324-02	.2746-02	.3324-02	2.049	20.68	551.2
432	32.000	.40000	831.00	.1069	.8830-01	.1037	.3709-02	.3734-02	.3599-02	2.293	15.88	554.6
432	32.000	.50000	832.00	.9050-01	.7460-01	.8770-01	.3140-02	.2590-02	.3045-02	1.925	13.73	559.5
432	32.000	.60000	833.00	.7680-01	.6330-01	.7450-01	.2667-02	.2199-02	.2586-02	1.631	10.92	561.1
432	32.000	.70000	834.00	.5950-01	.4910-01	.5780-01	.2068-02	.1704-02	.2005-02	1.262	9.609	562.3
432	32.000	.80000	835.00	.5570-01	.4590-01	.5400-01	.1933-02	.1594-02	.1875-02	1.184	8.441	560.1
432	32.000	.90000	836.00	.5360-01	.4420-01	.5260-01	.1859-02	.1534-02	.1827-02	1.144	8.443	557.0
432	32.000	.95000	837.00	.7000-01	.5780-01	.6910-01	.2430-02	.2005-02	.2400-02	1.495	11.41	557.3
432	32.000	.97500	838.00	.6230-01	.5140-01	.6170-01	.2162-02	.1785-02	.2141-02	1.333	10.55	555.9
432	32.000	1.0150	839.00	.1250	.1024	.1192	.4339-02	.3555-02	.4135-02	2.563	20.37	582.0
432	32.000	1.0300	840.00	.2492	.2037	.2374	.8650-02	.7072-02	.8241-02	5.051	39.61	588.7
432	32.000	1.0450	841.00	.3367	.2504	.2921	.1065-01	.8693-02	.1014-01	6.171	46.26	593.0
433	35.000	.50000-01	115.00	.1400	.1159	.1400	.4854-02	.4016-02	.4854-02	3.020	19.21	545.6
433	35.000	.20000	110.00	.8750-01	.8750-01	.1060	.3673-02	.3032-02	.3673-02	2.252	22.68	554.7
433	39.000	.10000+00	116.00	.1107	.9120-01	.1102	.3319-02	.3161-02	.3819-02	2.380	15.14	544.6
433	40.000	.76000-01	121.00	.7830-01	.6490-01	.7830-01	.2716-02	.2550-02	.2716-02	1.704	10.87	540.3
433	40.000	.15000	111.00	.1723	.1421	.1723	.5972-02	.4924-02	.5972-02	3.641	26.85	558.1
433	40.000	.20000	112.00	.1704	.1404	.1704	.3481-02	.2871-02	.3481-02	2.127	23.55	556.6
433	42.500	.50000-01	127.00	.1008	.8350-01	.1008	.3495-02	.2894-02	.3495-02	2.181	14.72	542.2
432	45.000	.15000	117.00	.9160-01	.7580-01	.9160-01	.3175-02	.2629-02	.3175-02	1.986	11.65	535.6
432	45.000	.92500	959.00	.4500-02	.3700-02	.4500-02	.1545-03	.1283-03	.1545-03	.9800-01	.7340	535.6
432	45.000	.95000	973.00	.4400-02	.3700-02	.4400-02	.1533-03	.1272-03	.1533-03	.9700-01	.7250	537.6
433	45.000	.20000	978.00	.1440-01	.1200-01	.1440-01	.5007-03	.4153-03	.5007-03	.3170	2.362	539.1
433	51.000	.20000	119.00	.4710-01	.3900-01	.4710-01	.1631-02	.1352-02	.1631-02	1.026	6.546	538.9
433	60.000	.50000-01	131.00	.3740-01	.3100-01	.3740-01	.1295-02	.1075-02	.1295-02	.8190	5.555	535.4
433	67.500	.20000	128.00	.2970-01	.2470-01	.2970-01	.1031-02	.8549-03	.1031-02	.6500	4.847	536.8
432	75.000	.97500	977.00	.1110-01	.9200-02	.1110-01	.3849-03	.3192-03	.3849-03	.2440	1.816	539.0
432	85.000	.97500	976.00	.1400-02	.1200-02	.1400-02	.4818-04	.4000-04	.4818-04	.3100-01	.2290	535.6
433	105.00	.40100	135.00	.2130-01	.1770-01	.2130-01	.7400-03	.6139-03	.7400-03	.4670	3.619	536.6
433	105.00	.50100	136.00	.3490-01	.2900-01	.3490-01	.1211-02	.1004-02	.1211-02	.7600	6.060	540.4
433	105.00	.60100	137.00	.1890-01	.1570-01	.1890-01	.5553-03	.5432-03	.6553-03	.4120	3.285	539.4
433	105.00	.70100	138.00	.7500-02	.6200-02	.7500-02	.2584-03	.2143-03	.2584-03	.1630	1.305	535.9
433	105.00	.80000	139.00	.1300-02	.1100-02	.1300-02	.4556-04	.3783-04	.4556-04	.2900-01	.2320	532.8
433	113.00	.60100	146.00	.3280-01	.2720-01	.3280-01	.1138-02	.9433-03	.1138-02	.7150	5.700	539.9
433	116.00	.75100	143.00	.2830-01	.2390-01	.2890-01	.1000-02	.8288-03	.1000-02	.6280	5.005	540.2
433	120.00	.10000+00	132.00	.1000-02	.8700-02	.1040-01	.2762-03	.2282-03	.2762-03	.1750	1.397	535.1
433	120.00	.60500	247.00	.5200-02	.3000-02	.5200-02	.3612-03	.2999-03	.3612-03	.2300	1.391	531.9
433	120.00	.82500	248.00	.5100-02	.4300-02	.5100-02	.1775-03	.1485-03	.1775-03	.1130	.9400	531.9
433	120.00	.85200	249.00	.2410-01	.2000-01	.2410-01	.8352-03	.6933-03	.8352-03	.5290	3.874	533.9
433	130.00	.80500	253.00	.7100-02	.5900-02	.7100-02	.2451-03	.2036-03	.2451-03	.1560	1.250	531.7

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AEDC VKF 41B-57A (OH-498) COLLATION DECK

OH-498 (AEDC 41B-57A) ORBITER FUSELAGE

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(RV1844)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TH DEG. R
433	130.00	.82900	254.00	.8900-02	.7400-02	.8900-02	.3068-03	.2548-03	.3068-03	.1950	1.517	531.7
433	130.00	.85200	255.00	.1340-01	.1110-01	.1340-01	.4636-03	.3650-03	.4636-03	.2950	2.439	531.9
433	135.00	.40100	142.00	.1400-02	.1200-02	.1400-02	.4801-04	.3987-04	.4801-04	.3100-01	.2370	531.9
433	135.00	.50100	143.00	.2400-02	.2000-02	.2400-02	.8154-04	.6769-04	.8154-04	.5200-01	.4270	533.8
433	135.00	.60100	144.00	.3100-02	.2500-02	.3100-02	.1062-03	.8814-04	.1062-03	.6700-01	.5220	534.3
433	135.00	.70100	145.00	.3300-02	.2700-02	.3300-02	.1145-03	.9507-04	.1145-03	.7300-01	.5810	533.6
433	140.00	.18000	85.000	.9800-02	.8100-02	.9800-02	.3385-03	.2810-03	.3385-03	.2150	1.658	533.6
433	140.00	.19500	87.000	.9000-02	.7400-02	.9000-02	.3103-03	.2577-03	.3103-03	.1970	1.524	532.1
433	145.00	.80500	259.00	.7400-02	.6100-02	.7400-02	.2555-03	.2131-03	.2555-03	.1630	1.270	530.9
434	145.00	.83300	260.00	.3200-02	.2600-02	.3200-02	.1097-03	.9123-04	.1097-03	.7000-01	.5300	527.6
434	145.00	.86200	261.00	.3400-02	.2900-02	.3400-02	.1190-03	.9688-04	.1190-03	.7800-01	.6300	528.3
433	150.00	.16000	85.000	.7500-02	.6200-02	.7500-02	.2507-03	.2165-03	.2507-03	.1660	1.239	531.8
433	150.00	.18000	84.000	.1670-01	.8600-02	.1070-01	.3592-03	.3067-03	.3592-03	.2350	1.754	531.9
433	150.00	.19000	82.000	.3000-03	.2000-03	.3000-03	.9535-05	.7919-05	.9535-05	.6000-02	.4500-01	531.9
433	155.00	.16000	80.000	.1040-01	.8700-02	.1040-01	.3620-03	.3007-03	.3620-03	.2300	1.720	531.9
433	155.00	.18000	83.000	.5000-03	.4000-03	.5000-03	.1612-04	.1339-04	.1612-04	.1000-01	.7700-01	531.6
433	160.00	.18600	77.000	.2540-01	.2110-01	.2540-01	.8821-03	.7321-03	.8821-03	.5590	4.467	534.4
433	175.00	.15000	81.000	.3380-01	.2600-01	.3380-01	.1171-02	.9715-03	.1171-02	.7410	5.349	534.9
433	175.00	.16500	79.000	.2190-01	.1820-01	.2190-01	.7587-03	.6297-03	.7587-03	.4810	3.589	534.0
433	175.00	.17500	78.000	.5200-01	.4310-01	.5200-01	.1802-02	.1495-02	.1802-02	1.137	8.20	536.7
432	180.00	.10000-01	59.000	.1776	.1470	.1776	.6165-02	.5103-02	.6165-02	3.862	28.65	546.1
432	180.00	.25000-01	60.000	.4880-01	.1750-01	.4880-01	.1693-02	.1406-02	.1693-02	1.081	7.809	534.2
432	180.00	.50000-01	61.000	.2110-01	.1750-01	.2110-01	.7322-03	.6085-03	.7322-03	.4690	3.006	531.6
432	180.00	.75000-01	62.000	.1110-01	.9200-02	.1110-01	.3847-03	.3197-03	.3847-03	.2470	1.580	531.3
432	180.00	.10000+00	63.000	.8800-02	.7400-02	.8800-02	.3070-03	.2552-03	.3070-03	.1970	1.298	531.4
432	180.00	.12500	64.000	.1050-01	.8700-02	.1050-01	.3655-03	.3037-03	.3655-03	.2340	1.640	532.2
432	180.00	.15000	65.000	.1900-01	.1580-01	.1900-01	.6594-03	.5478-03	.6594-03	.4220	2.952	533.1
432	180.00	.16000	66.000	.5630-01	.4670-01	.5630-01	.1954-02	.1621-02	.1954-02	1.239	6.917	538.7
432	180.00	.17000	67.000	.8790-01	.7290-01	.8790-01	.3051-02	.2529-02	.3051-02	1.927	10.75	541.0
432	180.00	.20000	69.000	.1520-01	.1260-01	.1520-01	.5282-03	.4388-03	.5282-03	.3380	2.102	533.1
432	180.00	.40100	72.000	.9400-02	.7800-02	.9400-02	.3260-03	.2706-03	.3260-03	.2070	1.769	536.2
432	180.00	.50000	73.000	.8100-02	.6700-02	.8100-02	.2815-03	.2337-03	.2815-03	.1790	1.525	536.9
432	180.00	.60100	74.000	.6400-02	.5300-02	.6400-02	.2235-03	.1855-03	.2235-03	.1420	1.171	537.0
432	180.00	.70100	75.000	.6400-02	.5300-02	.6400-02	.2209-03	.1833-03	.2209-03	.1400	1.122	536.6

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

## FUSELAGE

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = -30.00 SPDRK = 40.00  
BOFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	R40 SLUGS /FT3
426	8.000	3.697	30.10	.0000	180.0	860.4	.8800-01	1356.	98.20	3.948	3885.	.7527-04
427	8.000	3.692	30.05	.0000	180.0	860.2	.8800-01	1357.	98.30	3.947	3887.	.7519-04
428	8.000	3.692	30.06	.0000	180.0	860.2	.8800-01	1357.	98.30	3.947	3887.	.7519-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
426	.7909-07	.4916-01	0.0175
427	.7915-07	.4916-01	.2111-01
428	.7916-07	.4916-01	.2111-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
426	.00000	.00630	1.0000	.7722	.6271	.6103	.3796-01	.3083-01	.3246-01	22.25	118.5	634.1
426	.00000	.50000-02	2.0000	.7454	.6030	.6065	.3564-01	.2964-01	.2981-01	21.02	139.2	646.4
426	.00000	.10000-01	3.0000	.6068	.4941	.5112	.2383-01	.2429-01	.2513-01	17.73	115.0	625.7
426	.00000	.20000-01	4.0000	.3386	.2732	.2996	.1564-01	.1372-01	.1473-01	10.60	57.90	583.1
426	.00000	.30000-01	5.0000	.2891	.2388	.2613	.1421-01	.1174-01	.1284-01	9.158	50.20	575.7
426	.00000	.40000-01	6.0000	.2417	.2000	.2215	.1188-01	.9832-02	.1089-01	7.728	42.49	569.7
426	.00000	.50000-01	7.0000	.2263	.1856	.2091	.1122-01	.9174-02	.1028-01	7.097	47.01	582.1
426	.00000	.60000-01	8.0000	.2282	.1895	.2121	.1122-01	.9367-02	.1045-01	7.220	45.21	576.6
426	.00000	.70000-01	9.0000	.1921	.1586	.1802	.9445-02	.7794-02	.8859-02	6.045	41.33	580.1
426	.00000	.80000-01	10.000	.1557	.1287	.1469	.7551-02	.6326-02	.7222-02	4.950	33.96	573.2
426	.00000	.90000-01	11.000	.1437	.1190	.1362	.6503-02	.5847-02	.6694-02	4.610	29.00	567.3
426	.00000	.10000+00	12.000	.1323	.1095	.1259	.5775-02	.5385-02	.6188-02	4.248	25.28	566.9
426	.00000	.12000	14.000	.1175	.9740-01	.1124	.5775-02	.4789-02	.5527-02	3.801	20.98	562.1
426	.00000	.13000	15.000	.1135	.9410-01	.1088	.5580-02	.4626-02	.5348-02	3.666	21.28	563.3
426	.00000	.14000	16.000	.1021	.8460-01	.9730-01	.5317-02	.4158-02	.4815-02	3.290	20.73	564.3
426	.00000	.15000	18.000	.1057	.8750-01	.1016	.5194-02	.4301-02	.4994-02	3.393	20.76	566.9
426	.00000	.17000	19.000	.1049	.8690-01	.1010	.5157-02	.4269-02	.4565-02	3.361	21.13	568.4

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/REF R=0.9	H/REF R=1.0	H/REF (TAW)	H(OTO) BTU/R FT2SEC	H(OTO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R	TW DEG. R
425	.00000	.18000	20.000	.1050	.8590-01	.1012	.5162-02	.4272-02	.4973-02	3.361	21.13	569.0
426	.00000	.19000	21.000	.0930-01	.8270-01	.9630-01	.4908-02	.4055-02	.4735-02	3.214	20.24	565.3
426	.00000	.20000	22.000	.1005	.8320-01	.9710-01	.4940-02	.4089-02	.4772-02	3.217	20.22	569.0
426	.00000	.22500	23.000	.0920-01	.7630-01	.9000-01	.4569-02	.3782-02	.4425-02	2.980	18.74	567.9
426	.00000	.25000	801.00	.0050-01	.7490-01	.8780-01	.4448-02	.3682-02	.4316-02	2.898	18.22	568.6
426	.00000	.30000	802.00	.0650-01	.7150-01	.8390-01	.4252-02	.3516-02	.4125-02	2.766	17.38	569.6
426	.00000	.35000	803.00	.0650-01	.7150-01	.8390-01	.4254-02	.3516-02	.4126-02	2.747	17.22	574.4
426	.00000	.40000	804.00	.0630-01	.6970-01	.8180-01	.4146-02	.3425-02	.4021-02	2.673	17.24	575.5
426	.00000	.45000	805.00	.0750-01	.6570-01	.7710-01	.3909-02	.3229-02	.3791-02	2.513	16.69	577.2
426	.00000	.50000	806.00	.0730-01	.6650-01	.7110-01	.3502-02	.2972-02	.3493-02	2.305	15.76	580.1
426	.00000	.55000	807.00	.0720-01	.5950-01	.7000-01	.3549-02	.2923-02	.3411-02	2.263	16.48	582.6
426	.00000	.60000	808.00	.0730-01	.6420-01	.7550-01	.3826-02	.3154-02	.3709-02	2.435	17.74	583.3
426	.00000	.65000	809.00	.0730-01	.8040-01	.9470-01	.4802-02	.3553-02	.4555-02	3.031	22.01	588.9
426	.00000	.70000	810.00	.1262	.1037	.1223	.6202-02	.5099-02	.6010-02	3.882	29.09	594.2
426	.00000	.75000	811.00	.1705	.1400	.1652	.8383-02	.6590-02	.8121-02	5.202	37.58	599.6
426	.00000	.80000	812.00	.2068	.1711	.2023	.1027-01	.8411-02	.9342-02	6.309	45.44	605.6
426	.00000	.85000	813.00	.2238	.1932	.2197	.1103-01	.9004-02	.1077-01	6.727	50.04	608.7
426	.00000	.90000	814.00	.2127	.1744	.2089	.1046-01	.8573-02	.1037-01	6.450	45.01	603.2
426	.00000	.92500	815.00	.1775	.1457	.1748	.8725-02	.7154-02	.6591-02	5.429	43.61	597.9
426	.00000	.95000	816.00	.1795	.1472	.1792	.8823-02	.7235-02	.8710-02	5.449	43.67	602.5
426	.00000	.97500	817.00	.1947	.1594	.1927	.9568-02	.7634-02	.9471-02	5.858	46.62	607.9
426	.00000	1.0150	818.00	.3446	.2797	.3420	.1624-01	.1375-01	.1681-01	9.897	70.24	635.8
426	.00000	1.0300	819.00	.3582	.2909	.3556	.1761-01	.1453-01	.1748-01	10.32	73.22	634.2
426	.00000	1.0600	821.00	.2895	.2346	.2873	.1423-01	.1153-01	.1412-01	8.241	36.04	641.1
426	.00000	1.5000	83.000	.6800-02	.5600-02	.6800-02	.3321-03	.2765-03	.3321-03	.8110	1.350	544.9
426	.00000	1.5000	91.000	.2450-01	.2050-01	.2460-01	.1210-02	.1005-02	.1210-02	.8110	5.005	549.6
426	.00000	50000-01	90.000	.5700-02	.4700-02	.5700-02	.2779-03	.2315-03	.2779-03	.1880	1.131	544.2
426	.00000	40000	823.00	.8640-01	.7120-01	.8370-01	.4246-02	.3501-02	.4117-02	2.703	21.09	583.5
426	.00000	50000	824.00	.8030-01	.6610-01	.7780-01	.3947-02	.3251-02	.3826-02	2.499	19.46	537.1
426	.00000	60000	825.00	.6520-01	.5370-01	.6320-01	.3201-02	.2639-02	.3106-02	2.028	17.59	587.2
426	.00000	70000	826.00	.1069	.0880-01	.1036	.5253-02	.4318-02	.5091-02	3.287	23.81	594.4
426	.00000	80000	827.00	.1746	.1432	.1691	.8591-02	.7040-02	.8312-02	5.315	38.37	600.8
426	.00000	90000	828.00	.1800	.1476	.1757	.8947-02	.7255-02	.8637-02	5.467	42.26	602.2
427	.00000	10000-00	103.00	.2047	.1656	.2047	.1006-01	.8332-02	.1005-01	6.597	38.26	555.5
427	.00000	15000	104.00	.1230	.1020	.1230	.6047-02	.5016-02	.6047-02	3.994	25.22	560.4
426	.00000	92500	971.00	.5670-01	.4690-01	.5670-01	.2785-02	.2306-02	.2785-02	1.818	13.35	567.2
426	.00000	95000	975.00	.7590-01	.6520-01	.7930-01	.3929-02	.3252-02	.3929-02	2.561	18.79	568.3
426	.00000	97500	980.00	.5800-01	.4810-01	.5900-01	.2893-02	.2653-02	.2893-02	1.874	13.78	563.2
427	.00000	50000-01	105.00	.2370	.1957	.2370	.1165-01	.9668-02	.1165-01	7.702	42.55	560.1
426	.00000	20000	93.000	.1340-01	.1110-01	.1340-01	.6563-03	.5461-03	.6563-03	.4410	2.724	548.1
427	.00000	10000	106.00	.2129	.1811	.2188	.1076-01	.8901-02	.1076-01	7.000	43.97	570.3
427	.00000	15000	107.00	1.11	.1167	.1411	.6936-02	.5735-02	.6936-02	4.496	39.49	572.9
426	.00000	92500	970.00	.4070-01	.3380-01	.4070-01	.2003-02	.1661-02	.2003-02	1.318	9.701	562.0

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## AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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## OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B44)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
426	30.000	.95000	974.00	.5070-01	.4200-01	.5070-01	.2492-02	.2065-02	.2492-02	1.632	11.99	565.3
426	30.000	.97500	979.00	.4330-01	.3640-01	.4390-01	.2158-02	.1790-02	.2158-02	1.422	10.47	561.1
426	31.500	.20000	108.00	.9450-01	.7820-01	.9450-01	.4647-02	.3846-02	.4647-02	3.027	30.26	569.6
426	32.000	.40000	831.00	.1046	.8530-01	.1014	.5140-02	.4242-02	.5140-02	3.291	22.51	579.8
426	32.000	.50000	832.00	.9110-01	.7510-01	.7510-01	.4479-02	.3690-02	.4479-02	2.839	19.97	586.4
426	32.000	.60000	833.00	.8500-01	.7050-01	.7050-01	.4207-02	.3463-02	.4207-02	2.655	17.53	589.0
426	32.000	.70000	834.00	.8200-01	.6610-01	.6610-01	.4074-02	.3347-02	.4074-02	2.542	19.03	596.2
426	32.000	.80000	835.00	.1173	.9690-01	.1143	.5796-02	.4735-02	.5796-02	3.631	25.46	593.6
426	32.000	.90000	836.00	.1472	.1209	.1444	.7227-02	.5942-02	.7227-02	4.530	32.82	593.3
426	32.000	.97500	837.00	.1587	.1305	.1477	.7799-02	.6415-02	.7799-02	4.888	36.74	592.1
426	32.000	1.0150	838.00	.1595	.1310	.1477	.7842-02	.6415-02	.7842-02	4.888	37.88	596.8
426	32.000	1.0300	839.00	.3611	.2912	.3426	.1777-01	.1431-01	.1685-01	10.02	76.81	655.9
426	32.000	1.0450	840.00	.3671	.3125	.3675	.1907-01	.1536-01	.1907-01	10.81	80.11	652.1
426	32.000	1.0600	841.00	.3971	.3205	.3770	.1952-01	.1575-01	.1952-01	11.07	80.62	652.9
426	32.000	1.0750	842.00	.1397	.1151	.1397	.6868-02	.5209-02	.6868-02	4.566	29.05	553.3
426	32.000	1.0900	843.00	.1035	.8550-01	.1035	.5095-02	.4210-02	.5095-02	3.290	32.80	575.3
426	32.000	1.1050	844.00	.1079	.8970-01	.1079	.5705-02	.4411-02	.5705-02	3.551	22.52	551.6
426	32.000	1.1200	845.00	.7550-01	.6630-01	.7550-01	.3914-02	.3259-02	.3914-02	2.642	16.80	546.0
426	32.000	1.1350	846.00	.1607	.1493	.1807	.8882-02	.7337-02	.8882-02	5.722	16.80	546.0
426	32.000	1.1500	847.00	.1017	.8400-01	.1017	.5001-02	.4130-02	.5001-02	3.219	35.26	577.4
426	32.000	1.1650	848.00	.1005	.8370-01	.1005	.4544-02	.3773-02	.4544-02	3.323	22.38	558.9
426	32.000	1.1800	849.00	.9233-01	.7880-01	.9230-01	.4536-02	.3773-02	.4536-02	3.041	22.38	550.6
426	32.000	1.1950	850.00	.1230-01	.1020-01	.1230-01	.6039-03	.5024-03	.6039-03	4.050	2.999	549.5
426	32.000	1.2100	851.00	.9400-02	.7800-02	.9400-02	.4615-03	.3835-03	.4615-03	3.080	2.278	552.6
426	32.000	1.2250	852.00	.1640-01	.1360-01	.1640-01	.8038-03	.6677-03	.8038-03	5.350	3.951	554.7
426	32.000	1.2400	853.00	.4730-01	.3950-01	.4730-01	.2351-02	.1937-02	.2351-02	1.584	10.07	547.2
426	32.000	1.2550	854.00	.3550-01	.2960-01	.3550-01	.1745-02	.1456-02	.1745-02	1.192	8.067	538.3
426	32.000	1.2700	855.00	.3320-01	.2520-01	.3320-01	.1485-02	.1236-02	.1485-02	1.002	7.428	546.7
426	32.000	1.2850	856.00	.1330-01	.1110-01	.1330-01	.6553-03	.5445-03	.6553-03	4.360	3.224	554.2
426	32.000	1.3000	857.00	.1800-02	.1500-02	.1800-02	.8921-04	.7421-04	.8921-04	6.000	4.430	549.7
426	32.000	1.3150	858.00	.1890-01	.1570-01	.1890-01	.9284-03	.7728-03	.9284-03	6.260	4.818	547.0
426	32.000	1.3300	859.00	.3250-01	.2700-01	.3250-01	.2037-02	.1742-02	.2037-02	1.059	8.465	552.3
426	32.000	1.3450	860.00	.4270-01	.3540-01	.4270-01	.1599-02	.1329-02	.1599-02	1.336	11.03	555.4
426	32.000	1.3600	861.00	.1050-01	.8700-02	.1050-01	.5166-03	.4301-03	.5166-03	3.480	2.766	546.8
426	32.000	1.3750	862.00	.2200-02	.1800-02	.2200-02	.1060-03	.8930-04	.1060-03	7.200-01	.5720	542.6
426	32.000	1.3900	863.00	.5140-01	.4270-01	.5140-01	.2527-02	.2100-02	.2527-02	1.688	13.35	553.2
426	32.000	1.4050	864.00	.6150-01	.5100-01	.6150-01	.3022-02	.2509-02	.3022-02	2.003	15.80	558.2
426	32.000	1.4200	865.00	.1170-01	.9700-02	.1170-01	.5732-03	.4775-03	.5732-03	3.880	3.086	543.3
426	32.000	1.4350	866.00	.1000-01	.8300-02	.1000-01	.4901-03	.4090-03	.4901-03	3.350	2.028	536.5
426	32.000	1.4500	867.00	.1450-01	.1220-01	.1450-01	.7181-03	.5594-03	.7181-03	4.870	4.005	542.5
426	32.000	1.4650	868.00	.4390-01	.3550-01	.4390-01	.2158-02	.1796-02	.2158-02	1.453	11.90	547.8
426	32.000	1.4800	869.00	.2710-01	.2250-01	.2710-01	.1330-02	.1108-02	.1330-02	8.990	6.539	545.0
426	32.000	1.4950	870.00	.2220-01	.1850-01	.2220-01	.1091-02	.9092-03	.1091-02	7.730	5.881	543.7

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AEDC VKF V41B-57A (OH-498) COLLATION CHECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1844)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
427	130.00	.87900	254.00	.4500-01	.3750-01	.4500-01	.2213-02	.1843-02	.2213-02	1.494	11.51	545.8
427	130.00	.86200	255.00	.4270-01	.3560-01	.4270-01	.2099-02	.1748-02	.2099-02	1.418	11.63	540.4
427	135.00	.40100	142.00	.1300-02	.1100-02	.1300-02	.1002-03	.8354-04	.6202-04	.4200-01	.326	542.5
427	135.00	.50100	143.00	.2000-02	.1700-02	.2000-02	.2250-03	.1874-03	.1002-03	.6800-01	.55	544.2
427	135.00	.60100	144.00	.4600-02	.3800-02	.4600-02	.3450-03	.2875-03	.2250-03	.1520	1.175	542.4
427	135.00	.70100	145.00	.7000-02	.5900-02	.7000-02	.1244-03	.1038-03	.3450-03	.2340	1.61	540.2
427	140.00	.18000	85.000	.2500-02	.2100-02	.2500-02	.5083-03	.4233-03	.1244-03	.8500-01	.6520	540.9
427	140.00	.19500	87.000	.1030-01	.8600-02	.1030-01	.8160-03	.6804-03	.5083-03	.3460	2.660	540.1
427	145.00	.80500	259.00	.1660-01	.1380-01	.1660-01	.5710-03	.4767-03	.8160-03	4.296	4.296	535.0
428	145.00	.82900	260.00	.1160-01	.9700-02	.1160-01	.2637-03	.2369-03	.5710-03	.3920	2.949	535.4
427	150.00	.86200	261.00	.5800-02	.4800-02	.5800-02	.3667-03	.3059-03	.2637-03	.1950	1.606	539.4
427	150.00	.16000	86.000	.7500-02	.6200-02	.7500-02	.5524-03	.4606-03	.3667-03	.2500	1.861	540.6
427	150.00	.18000	84.000	.1120-01	.9400-02	.1120-01	.7721-05	.6446-05	.7721-05	.3760	2.796	534.9
427	155.00	.19000	82.000	.2030-03	.1000-03	.2000-03	.6052-03	.5046-03	.6052-03	.4120	3.066	540.2
427	160.00	.16000	77.000	.1230-01	.1930-01	.1230-01	.1782-02	.1483-02	.1782-02	1.200	9.534	547.5
427	175.00	.15000	81.000	.4330-01	.3610-01	.4330-01	.2128-02	.1772-02	.2128-02	1.437	10.32	546.0
427	175.00	.16500	79.000	.2200-01	.1830-01	.2200-01	.1079-02	.6990-03	.1079-02	.7310	5.429	543.6
427	175.00	.17500	78.000	.8470-01	.7040-01	.8470-01	.4163-02	.3461-02	.4163-02	2.784	19.92	552.3
426	180.00	.10000-01	59.000	.1725	.1428	.1725	.8479-02	.7018-02	.8479-02	5.525	40.53	568.5
426	180.00	.25000-01	60.000	.4880-01	.4060-01	.4880-01	.2400-02	.1996-02	.2400-02	1.607	11.51	550.8
426	180.00	.50000-01	61.000	.2050-01	.1710-01	.2050-01	.1007-02	.8385-03	.1007-02	.6790	4.315	546.3
426	180.00	.75000-01	62.000	.1050-01	.8600-02	.1050-01	.5183-03	.4321-03	.5189-03	.3500	2.228	545.2
426	180.00	.10000-00	63.000	.9300-02	.7800-02	.9300-02	.4592-03	.3823-03	.4592-03	.3100	2.027	545.9
426	180.00	.12500	64.000	.1350-01	.1120-01	.1350-01	.6636-03	.5524-03	.6636-03	.4470	3.107	546.7
426	180.00	.15000	65.000	.2400-01	.1990-01	.2400-01	.1177-02	.9796-03	.1177-02	.7900	5.489	548.8
426	180.00	.16000	66.000	.7600-01	.6310-01	.7600-01	.3738-02	.3102-02	.3738-02	2.474	13.68	558.2
426	180.00	.17000	67.000	.9910-01	.8230-01	.9910-01	.4871-02	.4044-02	.4871-02	3.228	17.86	557.5
426	180.00	.20000	69.000	.1440-01	.1200-01	.1440-01	.7061-03	.5876-03	.7061-03	4.740	2.930	548.1
426	180.00	.40100	72.000	.1230-01	.1030-01	.1230-01	.6070-03	.5047-03	.6070-03	4.060	3.428	551.7
426	180.00	.50000	73.000	.1010-01	.8400-02	.1010-01	.4967-03	.4130-03	.4967-03	.3320	2.805	551.7
426	180.00	.60100	74.000	.7800-02	.6500-02	.7800-02	.3852-03	.3203-03	.3852-03	.2580	2.107	551.1
426	180.00	.70100	75.000	.6800-02	.5600-02	.6800-02	.3327-03	.2767-03	.3327-03	.2230	1.764	551.0

AEDC VKF V41B-57A (OH-498) COLLATION DECK  
OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

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FUSELAGE

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = -30.00 SPOBRK = 40.00  
BOFLAP = 15.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAH DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
447	7.900	.5370	40.03	.0000	180.0	109.1	.1200-01	1267.	93.90	.5300	3752.	.1083-04
448	7.300	.5420	40.02	.0000	180.0	110.5	.1200-01	1270.	94.20	.5360	3756.	.1094-04
449	7.900	.5378	40.03	.0000	180.0	110.5	.1200-01	1276	94.70	.5360	3766.	.1088-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
447	.7564-07	.1779-01	0.0175
448	.7581-07	.1791-01	.5526-01
449	.7621-07	.1793-01	.5498-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISO) BTU/ R FT <sup>2</sup> SEC	H(ISO) BTU/ R FT <sup>2</sup> SEC	H(TAW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TM DEG. R
447	.00000	.00000	1.0000	.5138	.5047	.5487	.1092-01	.8980-02	.9762-02	6.398	35.46	554.1
447	.00000	.50000-02	2.0000	.7172	.5886	.5886	.1276-01	.1047-01	.1047-01	7.393	51.05	560.6
447	.00000	.10000-01	3.0000	.6561	.5390	.5453	.1167-01	.9590-02	.9702-02	6.806	45.05	556.9
447	.00000	.20000-01	4.0000	.4451	.3658	.3914	.7918-02	.6326-02	.6785-02	4.701	26.15	546.3
447	.00000	.30000-01	5.0000	.3443	.2840	.3000	.6126-02	.5052-02	.5337-02	3.652	20.34	543.9
447	.00000	.40000-01	6.0000	.2890	.2385	.2547	.5142-02	.4243-02	.4532-02	3.074	17.14	542.1
447	.00000	.50000-01	7.0000	.2804	.2311	.2490	.4989-02	.4111-02	.4431-02	2.957	19.93	547.3
447	.00000	.60000-01	8.0000	.2848	.2348	.2546	.5066-02	.4178-02	.4530-02	3.016	19.19	544.6
447	.00000	.70000-01	9.0000	.2432	.2004	.2188	.4326-02	.3566-02	.3893-02	2.569	17.87	545.1
447	.00000	.80000-01	10.000	.2016	.1662	.1823	.3586-02	.2827-02	.3244-02	2.133	14.84	542.6
447	.00000	.90000-01	11.000	.1926	.1589	.1749	.3426-02	.2672-02	.2951-02	1.936	13.04	542.2
447	.00000	.10000+00	12.000	.1820	.1502	.1659	.3238-02	.2672-02	.2951-02	1.765	11.66	539.7
447	.00000	.12000	14.000	.1653	.1365	.1515	.2941-02	.2429-02	.2695-02	1.736	9.855	540.1
447	.00000	.13000	15.000	.1627	.1343	.1493	.2894-02	.2390-02	.2656-02	1.565	10.20	540.3
447	.00000	.14000	16.000	.1466	.1211	.1347	.2609-02	.2154-02	.2397-02	1.591	9.978	540.6
447	.00000	.16000	18.000	.1492	.1231	.1373	.2554-02	.2191-02	.2444-02	1.591	9.860	540.6
447	.00000	.17000	19.000	.1499	.1237	.1382	.2667-02	.2201-02	.2458-02	1.597	10.18	541.1

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AEDC VKF V-1B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V-1B-57A) ORBITER FUSELAGE

(RV1B45)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AM) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	OTDOT DEG. R /SEC	TM DEG. R
447	.00000	.18000	20.000	.1550	.1279	.1430	.2757-02	.2276-02	.2543-02	1.652	10.53	540.8
447	.00000	.19000	21.000	.1587	.1311	.1466	.2823-02	.2332-02	.2609-02	1.698	10.83	538.7
447	.00000	.20000	22.000	.1448	.1196	.1339	.2576-02	.2127-02	.2383-02	1.545	9.850	540.4
447	.00000	.22500	23.000	.1359	.1122	.1260	.2418-02	.1997-02	.2242-02	1.452	9.267	539.2
447	.00000	.25000	801.00	.1321	.1091	.1228	.2351-02	.1942-02	.2184-02	1.412	9.013	539.1
447	.00000	.30000	802.00	.1242	.1026	.1154	.2210-02	.1825-02	.2053-02	1.327	8.467	539.6
447	.00000	.35000	803.00	.1224	.1010	.1136	.2177-02	.1797-02	.2022-02	1.303	8.209	541.2
447	.00000	.40000	804.00	.1205	.9940-01	.1119	.2143-02	.1769-02	.1990-02	1.282	8.410	541.8
447	.00000	.45000	805.00	.1069	.8810-01	.9920-01	.1902-02	.1568-02	.1765-02	1.133	7.647	544.2
447	.00000	.50000	806.00	.9900-01	.9170-01	.9200-01	.1762-02	.1453-02	.1636-02	1.049	7.305	544.4
447	.00000	.55000	807.00	.9370-01	.7730-01	.8700-01	.1668-02	.1375-02	.1548-02	.9910	7.353	545.7
447	.00000	.60000	808.00	.8670-01	.7150-01	.8050-01	.1543-02	.1272-02	.1432-02	.9170	6.802	545.7
447	.00000	.65000	809.00	.8160-01	.6740-01	.7590-01	.1456-02	.1199-02	.1351-02	.8630	6.397	547.2
447	.00000	.70000	810.00	.7870-01	.6490-01	.7310-01	.1401-02	.1154-02	.1300-02	.8310	6.371	547.0
447	.00000	.75000	811.00	.8110-01	.6680-01	.7530-01	.1443-02	.1189-02	.1339-02	.8560	6.350	546.6
447	.00000	.80000	812.00	.8230-01	.6780-01	.7640-01	.1464-02	.1207-02	.1359-02	.8700	6.456	545.8
447	.00000	.85000	813.00	.7830-01	.6460-01	.7350-01	.1393-02	.1149-02	.1308-02	.8290	6.368	544.8
447	.00000	.90000	814.00	.7380-01	.6090-01	.6940-01	.1313-02	.1083-02	.1235-02	.7840	5.842	542.5
447	.00000	.92500	815.00	.5940-01	.4900-01	.5600-01	.1056-02	.8717-03	.9960-03	.6330	5.228	540.9
447	.00000	.95000	816.00	.4550-01	.3760-01	.4300-01	.8099-03	.6685-03	.7659-03	.4850	4.009	540.9
447	.00000	.97500	817.00	.2120-01	.1750-01	.2010-01	.3775-03	.3116-03	.3579-03	.2260	1.868	541.0
447	.00000	1.0150	818.00	.5230-01	.4310-01	.4970-01	.9310-03	.7666-03	.8848-03	.9500	4.073	549.3
447	.00000	1.0300	819.00	.1887	.1553	.1793	.3357-02	.2763-02	.3190-02	1.975	14.62	551.6
447	.00000	1.0600	821.00	.2389	.1964	.2269	.425-02	.3495-02	.4038-02	2.492	20.85	553.6
447	10.600	1.5000	89.000	.5300-02	.4400-02	.5300-02	.9382-04	.771-04	.9382-04	.5700-01	.3480	528.9
447	11.500	.20000	91.000	.8900-02	.7300-02	.8900-02	.1576-03	.1306-03	.1576-03	.9700-01	.6040	526.6
447	14.000	.50000-01	90.000	.8500-02	.7100-02	.8500-02	.1521-03	.1261-03	.1521-03	.9300-01	.5670	526.5
447	17.500	.40000	823.00	.1174	.9680-01	.1090	.2089-02	.1722-02	.1939-02	1.243	9.882	545.1
447	17.500	.50000	824.00	.1070	.8810-01	.9930-01	.1903-02	.1568-02	.1766-02	1.128	8.959	547.4
447	17.500	.60000	825.00	.7140-01	.5880-01	.6630-01	.1271-02	.1047-02	.1179-02	.7520	6.685	548.3
447	17.500	.70000	826.00	.8470-01	.6980-01	.7860-01	.1508-02	.1241-02	.1399-02	.8910	6.600	548.9
447	17.500	.80000	827.00	.8120-01	.6690-01	.7540-01	.1444-02	.1191-02	.1341-02	.8580	6.353	546.1
447	17.500	.90000	828.00	.6690-01	.5520-01	.6290-01	.1190-02	.9816-03	.1119-02	.7110	5.661	542.4
448	20.000	1.00000-00	103.00	.2566	.2120	.2566	.4597-02	.3797-02	.4597-02	2.769	16.26	540.3
448	20.000	.15000	104.00	.1711	.1413	.1711	.3065-02	.2532-02	.3065-02	1.847	11.78	539.8
447	20.000	.92500	971.00	.2920-01	.2410-01	.2920-01	.1190-03	.4292-03	.5190-03	.3140	2.346	534.2
447	20.000	.95000	975.00	.6430-01	.5320-01	.6430-01	.1145-02	.9465-03	.1145-02	.6920	5.160	535.6
447	20.000	.97500	980.00	.5180-01	.4280-01	.5180-01	.1209-03	.7621-03	.9209-03	.5600	4.182	532.1
448	22.000	.50000-01	105.00	.2379	.1966	.2379	.4262-02	.3522-02	.4262-02	2.576	14.39	538.1
447	24.000	.20000	93.000	.9000-02	.7400-02	.9000-02	.1593-03	.1320-03	.1593-03	.9800-01	6.100	526.6
448	24.500	.10000-00	106.00	.2645	.2184	.2645	.4737-02	.3912-02	.4737-02	2.850	18.17	541.0
448	25.500	.15000	107.00	.1824	.1506	.1824	.3267-02	.2697-02	.3267-02	1.963	17.52	541.7
447	30.000	.92500	970.00	.1970-01	.1630-01	.1970-01	.3514-03	.2908-03	.3514-03	.2140	1.595	532.3

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1B45)

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H19TO) BTU/ R FT2SEC	H1TO) BTU/ R FT2SEC	H(TAN) BTU/ P FT2SEC	QDOT BTU/ FT2SEC	Q14OT DEG. R /SEC	TW DEG. R
447	30.000	.95000	974.00	5000-01	.4130-01	.5000-01	.8892-03	.7354-03	.8892-03	.5380	4.018	534.5
447	30.000	.97500	979.00	.2410-01	.2000-01	.2410-01	.4290-03	.3550-03	.4290-03	.2610	1.948	532.1
447	31.500	.20000	108.00	1245	.1028	.1245	.2231-02	.1842-02	.2231-02	1.342	13.62	540.8
447	32.000	.40000	831.00	1364	.1125	.1267	.2002-02	.2002-02	.2254-02	1.448	10.09	543.2
447	32.000	.50000	832.00	.1139	.9460-01	.1066	.2003-02	.1684-02	.1897-02	1.212	8.697	546.9
447	32.000	.60000	833.00	1034	.8520-01	.9590-01	.1840-02	.1515-02	.1707-02	1.087	.320	549.1
447	32.000	.70000	834.00	.8600-01	.7280-01	.7880-01	.1530-02	.1259-02	.1420-02	9020	6.905	550.6
447	32.000	.80000	835.00	.6630-01	.6110-01	.6880-01	.1318-02	.1087-02	.1224-02	7830	5.623	545.9
447	32.000	.90000	835.00	.7410-01	.5470-01	.6240-01	.1180-02	.0973-03	.1110-02	7060	5.248	541.6
447	32.000	.95000	837.00	.8650-01	.7170-01	.8210-01	.1545-02	.1276-02	.1461-02	9250	7.115	541.4
447	32.000	.97500	838.00	.3810-01	.3150-01	.3620-01	.0783-03	.0603-03	.0733-03	4080	3.254	538.7
447	32.000	1.0150	839.00	.4630-01	.3820-01	.4240-01	.2448-02	.2015-02	.2238-02	3.935	11.24	549.2
447	32.000	1.0300	840.00	.1376	.1133	.1558	.2685-02	.2210-02	.2455-02	1.582	12.11	550.8
447	32.000	1.0450	841.00	.1509	.1242	.1380	.2335-02	.1931-02	.2335-02	1.416	9.053	535.9
448	35.000	.50000-01	115.00	.1424	.1175	.1424	.2550-02	.2105-02	.2550-02	1.530	15.51	542.6
448	35.000	.10000+00	116.00	.1059	.8750-01	.1059	.1858-02	.1585-02	.1898-02	1.150	7.347	536.3
448	39.000	.76000-01	121.00	.7430-01	.6150-01	.7430-01	.1332-02	.1102-02	.1332-02	8120	5.199	532.7
448	40.000	.15000	111.00	.2074	.1712	.2074	.3716-02	.3057-02	.3716-02	2.229	16.56	542.7
448	40.000	.20000	112.00	.1270	.1048	.1270	.2276-02	.1878-02	.2276-02	1.363	15.18	543.6
448	42.500	.50000-01	127.00	.9220-01	.7630-01	.9220-01	.1652-02	.1367-02	.1652-02	1.005	6.816	534.5
448	45.000	.15000	117.00	.9300-01	.7700-01	.9300-01	.1666-02	.1378-02	.1666-02	1.013	5.965	534.8
447	45.000	.92500	969.00	.3700-02	.3100-02	.3700-02	.6649-04	.5510-04	.6649-04	.4100-01	.3050	527.2
447	45.000	.97000	973.00	.8900-02	.7330-02	.8900-02	.1576-03	.1305-03	.1576-03	.9600-01	.7190	530.2
447	45.000	.97500	978.00	.2910-01	.2410-01	.2910-01	.5172-03	.4281-03	.5172-03	3150	2.354	531.0
448	51.000	.20000	118.00	.5050-01	.4180-01	.5050-01	.9055-03	.7490-03	.9055-03	.5520	3.535	532.7
448	60.000	.50000-01	131.00	.2500-01	.2070-01	.2500-01	.4463-03	.3702-03	.4463-03	.2740	1.860	530.4
448	67.500	.20000	128.00	.2500-01	.2400-01	.2900-01	.5200-03	.4306-03	.5200-03	3180	2.378	530.7
447	75.000	.97500	977.00	.2050-01	.1700-01	.2050-01	.3664-04	.3033-03	.3664-04	.2230	1.669	530.7
447	85.000	.40100	135.00	.2420-01	.2000-01	.2420-01	.6916-04	.5735-04	.6916-04	.4200-01	.3170	527.6
448	105.00	.50100	136.00	.2420-01	.2000-01	.2420-01	.4359-03	.3586-03	.4359-03	.2650	2.063	530.1
448	105.00	.60100	137.00	.7900-02	.6500-02	.7900-02	.3412-03	.2825-03	.3412-03	.2080	1.670	531.7
448	105.00	.70100	138.00	.1900-01	.1500-01	.1900-01	.1417-03	.1173-03	.1417-03	.8700-01	.6940	531.5
448	105.00	.80100	139.00	.1900-02	.1600-02	.1900-02	.2888-04	.2888-04	.3485-04	.2100-01	1.720	529.0
448	113.00	.60100	146.00	.1100-01	.9000-02	.1100-01	.1620-04	.1620-04	.1954-04	.1200-01	.9700-01	526.8
448	116.00	.60100	147.00	.1100-01	.9000-02	.1100-01	.1651-03	.1651-03	.1994-03	.1320	1.056	530.5
448	116.00	.75100	148.00	.1700-02	.1400-02	.1700-02	.3021-04	.2504-04	.3021-04	.1220	.9770	531.3
448	120.00	.10000+00	132.00	.5900-02	.5700-02	.6900-02	.1025-03	.1025-03	.1237-03	.1900-01	1.490	527.5
448	120.00	.80000	247.00	.3000-02	.2500-02	.3000-02	.5458-04	.4529-04	.5458-04	.7600-01	.4610	528.3
448	120.00	.82300	248.00	.4900-02	.4000-02	.4900-02	.8707-04	.7224-04	.8707-04	.3400-01	.2810	523.9
448	120.00	.85200	249.00	.3800-02	.3600-02	.4600-02	.8277-04	.6867-04	.8277-04	.5400-01	.4470	524.4
448	120.00	.80500	253.00	.3300-02	.2700-02	.3300-02	.5902-04	.4898-04	.5902-04	.5100-01	.3770	524.1
448	120.00	.80500	253.00	.3300-02	.2700-02	.3300-02	.5902-04	.4898-04	.5902-04	.3700-01	.2940	523.7

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1(TO) BTU/ R FT2SEC	H1(TO) BTU/ R FT2SEC	H1(TA) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TH DEG. R
448	130.00	.82900	254.00	.5900-02	.4800-02	.5800-02	1036-03	.8598-04	.1036-03	.6400-01	.5010	523.6
448	130.00	.86200	255.00	.6100-02	.5100-02	.6100-02	1096-03	.9095-04	.1096-03	.6800-01	.5640	524.0
448	135.00	.40100	142.00	.2400-02	.2000-02	.2400-02	4317-04	.3579-04	.4317-04	.2700-01	.2070	527.1
448	135.00	.50100	143.00	.3400-02	.2800-02	.3400-02	6018-04	.4987-04	.6018-04	.3700-01	.3070	528.2
448	135.00	.60100	144.00	.3800-02	.3100-02	.3800-02	6732-04	.5579-04	.6732-04	.4100-01	.3220	528.0
448	135.00	.70100	145.00	.2200-02	.1800-02	.2200-02	3995-04	.3312-04	.3995-04	.2500-01	.1980	526.6
448	140.00	.18000	65.000	.9700-02	.8000-02	.9700-02	1740-03	.1442-03	.1740-03	.1070	.8270	528.9
448	140.00	.19500	67.000	.5200-02	.4400-02	.5200-02	9402-04	.7795-04	.9402-04	.5800-01	.4490	526.7
448	145.00	.80500	259.00	.2400-02	.2000-02	.2400-02	4372-04	.3629-04	.4372-04	.2700-01	.2110	523.4
449	145.00	.82300	260.00	.1410-01	.1170-01	.1410-01	2521-03	.2094-03	.2521-03	.1590	1.196	523.0
448	150.00	.15000	261.00	.2500-02	.2100-02	.2500-02	4455-04	.3701-04	.4455-04	.2800-01	.2320	527.5
448	150.00	.16000	86.000	.8200-02	.6800-02	.8200-02	1462-03	.1212-03	.1462-03	.9000-01	.6730	527.5
448	150.00	.13000	84.000	.9500-02	.7900-02	.9500-02	1710-03	.1418-03	.1710-03	.1050	.7890	526.9
448	150.00	.19000	82.000	.2000-03	.1000-03	.2000-03	3127-05	.2587-05	.3127-05	.2000-02	.1400-01	534.5
448	155.00	.16000	80.000	.1000-01	.8300-02	.1000-01	1796-03	.1489-03	.1796-03	.1100	.8270	527.5
448	155.00	.18000	83.000	.6000-03	.5000-03	.6000-03	9966-05	.8245-05	.9966-05	.6000-02	.4500-01	534.3
448	160.00	.18000	77.000	.1300-01	.1070-01	.1300-01	2321-03	.1924-03	.2321-03	.1430	1.147	526.9
448	175.00	.15000	81.000	.3470-01	.2880-01	.3470-01	6222-03	.5155-03	.6222-03	.3820	2.765	529.0
448	175.00	.16500	79.000	.2030-01	.1680-01	.2030-01	3625-03	.3012-03	.3625-03	.2230	1.672	528.2
448	175.00	.17500	78.000	.2510-01	.2080-01	.2510-01	4497-03	.3727-03	.4497-03	.2760	2.002	528.1
447	180.00	.13000-01	59.000	.1121	.9260-01	.1121	1994-02	.1647-02	.1994-02	.1200	8.937	538.2
447	180.00	.2500-01	60.000	.3040-01	.2520-01	.3040-01	5414-03	.4478-03	.5414-03	.3280	2.368	534.3
447	180.00	.50000-01	61.000	.1480-01	.1220-01	.1480-01	2631-03	.2177-03	.2631-03	.1600	1.023	532.5
447	180.00	.75000-01	62.000	.1020-01	.8500-02	.1020-01	1818-03	.1505-03	.1818-03	.1110	.7100	530.8
447	180.00	.10000-00	63.000	.1230-01	.1010-01	.1230-01	2180-03	.1805-03	.2180-03	.1330	.8780	530.0
447	180.00	.12500	64.000	.1630-01	.1350-01	.1630-01	2904-03	.2405-03	.2904-03	.1770	1.244	529.2
447	180.00	.15000	65.000	.2420-01	.2000-01	.2420-01	4307-03	.3567-03	.4307-03	.2630	1.845	529.1
447	180.00	.16000	66.000	.5550-01	.4600-01	.5550-01	9878-03	.8178-03	.9878-03	.6020	3.373	531.0
447	180.00	.17000	67.000	.7890-01	.6530-01	.7890-01	1403-02	.1162-02	.1403-02	.8540	4.790	531.0
447	180.00	.20000	69.000	.1660-01	.1390-01	.1660-01	2955-03	.2449-03	.2955-03	.1810	1.128	528.0
447	180.00	.40100	72.000	.3400-02	.2900-02	.3400-02	6127-04	.5077-04	.6127-04	.3800-01	.3220	527.3
447	180.00	.50000	73.000	.2900-02	.2400-02	.2900-02	5145-04	.4263-04	.5145-04	.3100-01	.2700	527.8
447	180.00	.60100	74.000	.3000-02	.2500-02	.3000-02	5304-04	.4395-04	.5304-04	.3200-01	.2700	527.4
447	180.00	.70100	75.000	.4100-02	.3400-02	.4100-02	7218-04	.5983-04	.7218-04	.4400-01	.3560	526.7

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1845)

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = -30.00 SPOBRK = 40.00  
BOFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
441	7.940	1.015	40.07	.0000	180.0	208.9	.2200-01	1266.	93.10	.9920	3753.	.2026-04
442	7.940	1.017	40.07	.0000	180.0	209.1	.2200-01	1266.	93.00	.9930	3752.	.2029-04
443	7.940	1.016	40.09	.0000	180.0	209.4	.2300-01	1268.	93.20	.9940	3755.	.2029-04

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THET	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTHOT DEG. R /SEC	TW DEG. R
441	.00000	.00000	1.0000	.6008	.4935	.5368	.1463-01	.1202-01	.1307-01	8.523	47.16	557.0
441	.00000	.50000-02	2.0000	.7125	.5836	.5836	.1735-01	.1421-01	.1421-01	9.947	68.48	566.3
441	.00000	.10000-01	3.0000	.6344	.5358	.5431	.1593-01	.1307-01	.1322-01	9.210	61.63	561.7
441	.00000	.20000-01	4.0000	.4391	.3518	.3762	.1069-01	.8809-02	.9159-02	6.338	35.25	546.9
441	.00000	.30000-01	5.0000	.3408	.2811	.2969	.8397-02	.6843-02	.7228-02	4.946	27.55	543.6
441	.00000	.40000-01	6.0000	.2654	.2354	.2524	.6973-02	.5755-02	.6145-02	4.173	23.27	541.3
441	.00000	.50000-01	7.0000	.2802	.2308	.2487	.6392-02	.5619-02	.6056-02	4.036	27.19	548.1
441	.00000	.60000-01	8.0000	.2825	.2329	.2525	.6398-02	.5671-02	.6148-02	4.090	26.02	545.0
441	.00000	.70000-01	9.0000	.2455	.2057	.2245	.6077-02	.5007-02	.5455-02	3.600	25.02	547.3
441	.00000	.80000-01	10.0000	.1974	.1628	.1795	.4906-02	.3563-02	.4347-02	2.861	19.91	544.5
441	.00000	.90000-01	11.0000	.1879	.1551	.1706	.4574-02	.3775-02	.4154-02	2.737	17.44	541.4
441	.00000	.10000-00	12.0000	.1735	.1432	.1501	.4225-02	.3455-02	.3950-02	2.522	15.19	542.8
441	.00000	.12000	14.0000	.1657	.1358	.1518	.4034-02	.3331-02	.3696-02	2.420	13.51	539.8
441	.00000	.13000	15.0000	.1580	.1304	.1450	.3847-02	.3176-02	.3529-02	2.305	13.54	540.6
441	.00000	.14000	16.0000	.1475	.1218	.1355	.3592-02	.2954-02	.3299-02	2.150	13.71	541.1
441	.00000	.15000	18.0000	.1474	.1216	.1356	.3588-02	.2961-02	.3302-02	2.144	13.28	542.2
441	.00000	.17000	19.0000	.1485	.1225	.1368	.3515-02	.2982-02	.3330-02	2.157	13.74	543.0

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ORIGINAL PAGE IS POOR

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AEDC VKF V-1B-57A (OH-49B) COLLATION DECK

04-49B (AEDC V-1B-57A) OFB TLR FUSELAGE

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RUN NUMBER	THETA	X/L	T/C NO	H/REF P=0.9	H/REF P=1.0	H/REF (TAK)	H(OTO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
441	30.000	.18000	20.000	.1495	.1234	.380	.3543-02	.3005-02	.3359-02	13.84	543.1
441	30.000	.19000	21.000	.1508	.1245	.1392	.3670-02	.3030-02	.3390-02	14.02	540.5
441	30.000	.20000	22.000	.1442	.1190	.1332	.3511-02	.2836-02	.3246-02	13.35	542.8
441	30.000	.22000	23.000	.1326	.1094	.1226	.3329-02	.2664-02	.2993-02	12.30	541.8
441	30.000	.25000	24.000	.1326	.1094	.1231	.3227-02	.2663-02	.2935-02	12.29	542.1
441	30.000	.30000	30.000	.1241	.1024	.1152	.3022-02	.2493-02	.2805-02	11.49	542.8
441	30.000	.35000	35.000	.1259	.1033	.1165	.3066-02	.2527-02	.2846-02	11.58	545.7
441	30.000	.40000	40.000	.1195	.9850-01	.1105	.2910-02	.2388-02	.2700-02	11.29	546.8
441	30.000	.45000	45.000	.1131	.9310-01	.1045	.2753-02	.2267-02	.2554-02	10.96	548.8
441	30.000	.50000	50.000	.9740-01	.8020-01	.9040-01	.2373-02	.1953-02	.2201-02	9.718	549.7
441	30.000	.55000	55.000	.9290-01	.7540-01	.8630-01	.2233-02	.1811-02	.2038-02	9.832	552.0
441	30.000	.60000	60.000	.8410-01	.6520-01	.7650-01	.2043-02	.1635-02	.1900-02	8.901	552.2
441	30.000	.65000	65.000	.8190-01	.6720-01	.7590-01	.1992-02	.1633-02	.1847-02	8.614	554.4
441	30.000	.70000	70.000	.7840-01	.6440-01	.7270-01	.1908-02	.1569-02	.1769-02	8.536	554.3
441	30.000	.75000	75.000	.8220-01	.6760-01	.7620-01	.2002-02	.1646-02	.1855-02	8.663	554.1
441	30.000	.80000	80.000	.8370-01	.6930-01	.7760-01	.2037-02	.1675-02	.1889-02	8.826	553.5
441	30.000	.85000	85.000	.8290-01	.6820-01	.7770-01	.2018-02	.1660-02	.1891-02	9.060	552.7
441	30.000	.90000	90.000	.7510-01	.6270-01	.7150-01	.1853-02	.1525-02	.1741-02	7.822	550.5
441	30.000	.92500	92.500	.6110-01	.5030-01	.5760-01	.1467-02	.1225-02	.1401-02	7.233	548.9
441	30.000	.95000	95.000	.5760-01	.4750-01	.5450-01	.1407-02	.1153-02	.1329-02	6.834	549.4
441	30.000	.97500	97.500	.5330-01	.4330-01	.5080-01	.6885-03	.5672-03	.6525-03	3.343	549.8
441	30.000	1.0150	101.50	.434	.3374	.360	.3491-02	.2659-02	.3312-02	14.68	566.9
441	30.000	1.0300	103.00	.3613	.2507	.3427	.8797-02	.7200-02	.8344-02	35.83	568.8
441	30.000	1.0600	106.00	.3175	.2096	.3011	.7730-02	.6322-02	.7331-02	36.45	571.2
441	30.000	1.1000	110.00	.4500-02	.3800-02	.4600-02	.1113-03	.9223-04	.1113-03	.4140	521.2
441	30.000	1.1500	115.00	.8900-02	.7400-02	.8900-02	.2160-03	.1793-03	.2160-03	.8270	526.4
441	30.000	1.2000	120.00	.1170-01	.9700-02	.1170-01	.2369-03	.2362-03	.2849-03	1.033	525.7
441	30.000	1.3000	130.00	.1162	.9570-01	.1078	.2830-02	.2329-02	.2625-02	1.665	551.3
441	30.000	1.4000	140.00	.1058	.8700-01	.9810-01	.2576-02	.2117-02	.2393-02	1.507	554.6
441	30.000	1.5000	150.00	.7130-01	.6700-01	.6610-01	.1735-02	.1426-02	.1603-02	1.014	555.0
441	30.000	1.6000	160.00	.8240-01	.6770-01	.7640-01	.2007-02	.1649-02	.1850-02	8.390	556.3
441	30.000	1.7000	170.00	.8160-01	.6710-01	.7570-01	.1987-02	.1634-02	.1842-02	8.608	553.5
441	30.000	1.8000	180.00	.6730-01	.5540-01	.6320-01	.1638-02	.1348-02	.1539-02	7.661	550.0
442	30.000	1.9000	190.00	.2521	.2093	.2521	.6141-02	.5066-02	.6141-02	21.50	542.5
442	30.000	2.0000	200.00	.1700	.1403	.1700	.4139-02	.3417-02	.4139-02	15.79	540.8
441	30.000	2.1000	210.00	.3570-01	.2350-01	.3570-01	.8693-03	.7165-03	.8693-03	3.909	536.5
441	30.000	2.2000	220.00	.6210-01	.5120-01	.6210-01	.1512-02	.1249-02	.1512-02	6.774	538.3
441	30.000	2.3000	230.00	.5400-01	.4470-01	.5400-01	.1315-02	.1093-02	.1315-02	5.950	533.6
442	30.000	2.4000	240.00	.2337	.1930	.2337	.5632-02	.4700-02	.5632-02	19.05	539.5
441	30.000	2.5000	250.00	.1050-01	.8700-02	.1050-01	.2549-03	.213-03	.2549-03	.9760	526.4
442	30.000	2.6000	260.00	.2658	.2192	.2658	.6473-02	.5338-02	.6473-02	24.153	543.8
442	30.000	2.7000	270.00	.1847	.1523	.1847	.4499-02	.3710-02	.4499-02	23.85	544.1
441	30.000	2.8000	280.00	.2130-01	.1810-01	.2130-01	.5321-03	.4400-03	.5321-03	2.404	534.3

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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(RV1845)

OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
441	30.000	.95000	974.00	.4870-01	.4030-01	.4870-01	.1187-02	.9810-03	.1187-02	.7160	5.342	536.1
441	30.000	.97500	979.00	.4190-01	.3470-01	.4190-01	.1021-02	.8452-03	.1021-02	.6210	4.646	531.1
442	31.500	.20000	108.00	.1265	.1044	.1265	.3081-02	.2543-02	.3081-02	1.843	18.69	541.0
441	32.000	.40000	831.00	.1374	.1131	.1274	.3344-02	.2755-02	.3103-02	1.978	13.74	548.2
441	32.000	.50000	832.00	.1116	.9170-01	.1034	.2716-02	.2234-02	.2519-02	1.582	11.39	553.7
441	32.000	.60000	833.00	.9660-01	.7940-01	.8960-01	.2353-02	.1933-02	.2181-02	1.373	9.216	556.0
441	32.000	.70000	834.00	.7020-01	.5770-01	.6510-01	.1710-02	.1404-02	.1585-02	.940	7.584	558.2
441	32.000	.80000	835.00	.7340-01	.6030-01	.6800-01	.1786-02	.1469-02	.1556-02	1.047	7.488	553.5
441	32.000	.90000	836.00	.6680-01	.5500-01	.6280-01	.1627-02	.1340-02	.1529-02	.9620	7.125	548.5
441	32.000	.95000	837.00	.8810-01	.7260-01	.8320-01	.2145-02	.1767-02	.2027-02	1.270	9.741	547.5
441	32.000	.97500	838.00	.6460-01	.5320-01	.6120-01	.1573-02	.1296-02	.1490-02	.9330	7.417	546.4
441	32.000	1.0150	839.00	.1094	.8960-01	.9980-01	.2656-02	.2182-02	.2429-02	1.526	12.22	567.1
441	32.000	1.0300	840.00	.2487	.2037	.2268	.6056-02	.4960-02	.5521-02	3.472	26.84	566.4
441	32.000	1.0450	841.00	.2905	.2379	.2649	.7074-02	.5793-02	.6449-02	4.052	30.77	566.9
442	35.000	.50000-01	115.00	.1271	.1050	.1271	.3095-02	.2557-02	.3095-02	1.861	11.88	537.9
442	35.000	.20000	110.00	.1359	.1121	.1359	.3309-02	.2729-02	.3309-02	1.972	19.98	543.1
442	39.000	.10000+00	116.00	.1046	.8650-01	.1046	.2548-02	.2106-02	.2548-02	1.538	9.834	535.3
442	40.000	.76000-01	121.00	.7280-01	.6020-01	.7280-01	.1774-02	.1467-02	.1774-02	1.074	6.872	533.6
442	40.000	.15000	111.00	.2113	.1742	.2113	.5146-02	.4242-02	.5146-02	3.055	22.67	545.3
442	40.000	.20000	112.00	.1291	.1065	.1291	.3145-02	.2593-02	.3145-02	1.870	20.83	544.3
442	42.500	.50000-01	127.00	.9060-01	.7490-01	.9060-01	.2208-02	.1825-02	.2208-02	1.332	9.032	535.6
442	45.000	.15000	117.00	.9050-01	.7490-01	.9050-01	.2205-02	.1824-02	.2205-02	1.337	7.887	532.5
441	45.000	.92500	969.00	.6300-02	.5200-02	.6300-02	.1529-03	.1267-03	.1529-03	.9400-01	.7010	527.9
441	45.000	.95000	973.00	.9000-02	.7500-02	.9000-02	.2199-03	.1820-03	.2199-03	.1340	1.000	531.4
441	45.000	.97500	978.00	.3060-01	.2530-01	.3060-01	.7456-03	.6169-03	.7456-03	.4530	3.380	532.8
442	51.000	.20000	118.00	.4930-01	.4080-01	.4930-01	.1200-02	.9935-03	.1200-02	.7300	4.682	530.4
442	60.000	.50000-01	131.00	.2310-01	.1910-01	.2310-01	.5633-03	.4663-03	.5633-03	.3430	2.329	530.7
442	67.500	.20000	128.00	.2680-01	.2390-01	.2680-01	.7020-03	.5814-03	.7020-03	.4280	3.205	529.0
441	75.000	.97500	977.00	.2230-01	.1850-01	.2230-01	.5430-03	.4493-03	.5430-03	.3300	2.465	532.0
441	85.000	.97500	976.00	.5800-02	.4800-02	.5800-02	.1422-03	.1178-03	.1422-03	.8700-01	.6500	528.6
442	105.00	.40100	135.00	.2600-01	.2150-01	.2600-01	.6337-03	.5247-03	.6337-03	.3660	3.005	529.7
442	105.00	.62100	137.00	.8700-02	.7200-02	.8700-02	.2127-03	.1760-03	.2127-03	.3360	2.694	532.0
442	105.00	.70100	138.00	.1200-02	.1000-02	.1200-02	.2998-04	.2483-04	.2998-04	.1800-01	1.470	529.4
442	105.00	.80000	139.00	.1400-02	.1200-02	.1400-02	.3512-04	.2910-04	.3512-04	.2100-01	.1730	527.1
442	113.00	.60100	146.00	.1430-01	.1190-01	.1430-01	.3491-03	.2889-03	.3491-03	.2120	1.700	531.4
442	116.00	.60100	147.00	.1200-01	.9900-02	.1200-01	.2924-03	.2420-03	.2924-03	.1780	1.424	531.7
442	116.00	.75100	148.00	.8000-03	.7000-03	.8000-03	.2009-04	.1664-04	.2009-04	.1200-01	.9900-01	528.0
442	120.00	.10000+00	132.00	.5300-02	.4400-02	.5300-02	.1288-03	.1067-03	.1288-03	.7900-01	.4780	527.7
442	120.00	.80500	247.00	.2100-02	.1800-02	.2100-02	.5152-04	.4271-04	.5152-04	.3200-01	.2630	525.5
442	120.00	.82900	248.00	.4100-02	.3400-02	.4100-02	.9947-04	.8245-04	.9947-04	.6100-01	.5060	525.9
442	120.00	.86200	249.00	.4400-02	.3700-02	.4400-02	.1075-03	.8915-04	.1075-03	.6600-01	.4860	524.7
442	130.00	.80500	253.00	.2100-02	.1700-02	.2100-02	.5038-04	.4177-04	.5038-04	.3100-01	.2490	525.4

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) OR3ITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	QDOT DEG. R /SEC	TW DEG. R
442	130.00	.82900	254.00	.4100-02	.3400-02	.4100-02	.9969-04	.8265-04	.9969-04	.6100-01	.4780	525.1
442	130.00	.86200	255.00	.5300-02	.4400-02	.5300-02	.1296-03	.1074-03	.1296-03	.6000-01	.6620	524.4
442	135.00	.40100	142.00	.1800-02	.1500-02	.1800-02	.4285-04	.3552-04	.4285-04	.2600-01	.2050	525.4
442	135.00	.50100	143.00	.2400-02	.2000-02	.2400-02	.5841-04	.4840-04	.5841-04	.3600-01	.2960	527.2
442	135.00	.60107	144.00	.3000-02	.2500-02	.3000-02	.7420-04	.6148-04	.7420-04	.4500-01	.3540	527.6
442	135.00	.70100	145.00	.2200-02	.1800-02	.2200-02	.5293-04	.4386-04	.5293-04	.3200-01	.2600	526.8
442	140.00	.18000	85.000	.1280-01	.1050-01	.1280-01	.3106-03	.2575-03	.3106-03	.1910	1.480	524.8
442	140.00	.19500	87.000	.7000-02	.5800-02	.7000-02	.1709-03	.1417-03	.1709-03	.1050	.8120	526.1
442	145.00	.80500	259.00	.2200-02	.1800-02	.2200-02	.5409-04	.4485-04	.5409-04	.3300-01	.2590	525.0
443	145.00	.82900	260.00	.1650-01	.1370-01	.1650-01	.4030-03	.3344-03	.4030-03	.2490	1.885	523.0
443	145.00	.86200	261.00	.3000-02	.2500-02	.3000-02	.7354-04	.6102-04	.7354-04	.4500-01	.3780	523.4
442	150.00	.16000	86.000	.1360-01	.1130-01	.1360-01	.3318-03	.2749-03	.3318-03	.2030	1.520	527.2
442	150.00	.18000	84.003	.1690-01	.1400-01	.1690-01	.4111-03	.3405-03	.4111-03	.2510	1.881	527.9
442	155.00	.16000	80.000	.1690-01	.1400-01	.1690-01	.1320-04	.1092-04	.1320-04	.8000-02	.6000-01	533.2
442	155.00	.18000	83.000	.5000-03	.4000-03	.5000-03	.3547-03	.2939-03	.3547-03	.2170	1.742	527.0
442	160.00	.15000	77.000	.1460-01	.1210-01	.1460-01	.1143-02	.9467-03	.1143-02	.6960	5.038	530.2
442	175.00	.15000	81.000	.4690-01	.3890-01	.4690-01	.4919-03	.4075-03	.4919-03	.3010	2.251	528.0
442	175.00	.16500	79.000	.2020-01	.1670-01	.2020-01	.7447-03	.6168-03	.7447-03	.4550	3.293	528.6
442	175.00	.17500	78.000	.3060-01	.2530-01	.3060-01	.2611-02	.2158-02	.2611-02	.1576	11.75	536.0
441	180.00	.10000-01	59.000	.1072	.8860-01	.1072	.6769-03	.5603-03	.6769-03	.4120	2.960	531.2
441	180.00	.25000-01	60.000	.2780-01	.2300-01	.2780-01	.3410-03	.2824-03	.3410-03	.2080	1.334	529.6
441	180.00	.50000-01	51.000	.1400-01	.1160-01	.1400-01	.2705-03	.2241-03	.2705-03	.1650	1.060	528.9
441	180.00	.75000-01	62.000	.1110-01	.9200-02	.1110-01	.3980-03	.3297-03	.3980-03	.2430	1.605	528.9
441	180.00	.10000+00	63.000	.1630-01	.1350-01	.1630-01	.5612-03	.4648-03	.5612-03	.3430	2.405	528.8
441	180.00	.64.000	64.000	.2300-01	.1910-01	.2300-01	.7737-03	.6408-03	.7737-03	.4720	3.314	529.1
441	180.00	.65.000	65.000	.3180-01	.2630-01	.3180-01	.2000-02	.1655-02	.2000-02	.1.214	6.800	532.7
441	180.00	.66.000	66.000	.8210-01	.6800-01	.8210-01	.2376-02	.1965-02	.2376-02	1.441	8.068	533.3
441	180.00	.67.000	67.000	.9760-01	.8070-01	.9760-01	.4628-03	.3834-03	.4628-03	.2830	1.766	528.2
441	180.00	.20000	69.000	.1900-01	.1570-01	.1900-01	.9192-04	.7616-04	.9192-04	.5600-01	.4820	527.6
441	180.00	.40100	72.000	.3800-02	.3300-02	.3800-02	.9618-04	.7968-04	.9618-04	.5900-01	.5040	528.3
441	180.00	.50000	73.000	.4000-02	.3300-02	.4000-02	.1111-03	.9203-04	.1111-03	.6800-01	.5630	528.0
441	180.00	.60100	74.000	.4600-02	.3800-02	.4600-02	.8563-04	.7096-04	.8563-04	.5200-01	.4220	527.0
441	180.00	.70100	75.000	.3500-02	.2900-02	.3500-02						

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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FUSELAGE

OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B45)

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = -30.00 SPOBRK = 40.00  
 BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
435	7.980	1.997	40.07	.0000	180.0	431.4	.4500-01	1296.	94.30	2.002	3798.	.3994-04
436	7.980	1.987	40.08	.0000	180.0	429.9	.4500-01	1297.	94.50	1.995	3800.	.3975-04
437	7.980	1.990	40.07	.0000	180.0	429.8	.4500-01	1296.	94.30	1.995	3798.	.3980-04

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTMDT DEG. R /SEC	TM DEG. R
435	.00000	.00000	1.0000	.6059	.4979	.5415	.2104-01	.1729-01	.1881-01	12.57	69.15	569.0
435	.00000	.50000-02	2.0000	.7076	.5791	.5791	.2457-01	.2011-01	.2011-01	14.35	97.99	582.5
435	.00000	.10000-01	3.0000	.6514	.5342	.5404	.2262-01	.1855-01	.1877-01	13.36	88.74	576.0
435	.00000	.20000-01	4.0000	.4399	.3629	.3772	.1523-01	.1260-01	.1310-01	9.330	51.66	555.7
435	.00000	.30000-01	5.0000	.3436	.2838	.2996	.1193-01	.9856-02	.1041-01	7.343	40.75	551.0
435	.00000	.40000-01	6.0000	.2869	.2372	.2531	.9963-02	.8237-02	.8791-02	6.164	34.26	547.7
435	.00000	.50000-01	7.0000	.2779	.2291	.2468	.9650-02	.7956-02	.8571-02	5.872	39.37	557.9
435	.00000	.60000-01	8.0000	.2325	.2332	.2528	.9815-02	.8101-02	.8779-02	5.011	38.07	553.9
435	.00000	.70000-01	9.0000	.2471	.2038	.2224	.8583-02	.7077-02	.7723-02	5.227	36.15	557.3
435	.00000	.80000-01	10.000	.2024	.1671	.1832	.7029-02	.5803-02	.6362-02	4.311	29.88	553.1
435	.00000	.90000-01	11.000	.1916	.1584	.1741	.6554-02	.5500-02	.6048-02	4.109	26.09	548.9
435	.00000	.10000+00	12.000	.1777	.1469	.1621	.6173-02	.5101-02	.5630-02	3.809	22.87	549.4
435	.00000	.12000	14.000	.1641	.1358	.1505	.5700-02	.4716-02	.5227-02	3.540	19.71	545.3
435	.00000	.13000	15.000	.1572	.1300	.1443	.5459-02	.4515-02	.5013-02	3.384	19.82	546.4
435	.00000	.14000	16.000	.1446	.1196	.1329	.5022-02	.4153-02	.4617-02	3.109	19.76	547.3
435	.00000	.16000	18.000	.1498	.1238	.1379	.5202-02	.4299-02	.4791-02	3.210	19.81	549.4
435	.00000	.17000	19.000	.1513	.1250	.1395	.5255-02	.4342-02	.4845-02	3.237	20.54	550.5



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B45)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AN) BTU/ R FT2SEC	OOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
435	.00000	.18000	20.000	.1517	.1253	.1400	.5268-02	.4351-02	.4861-02	3.241	20.56	551.2
435	.00000	.19000	21.000	.1354	.1120	.1252	.4703-02	.3889-02	.4347-02	2.911	18.50	547.4
435	.00000	.20000	22.000	.1436	.1186	.1329	.4988-02	.4121-02	.4614-02	3.070	19.47	551.0
435	.00000	.22500	23.000	.1311	.1083	.1216	.4552-02	.3761-02	.4222-02	2.805	17.80	550.1
435	.00000	.25000	801.00	.1307	.1081	.1214	.4539-02	.3749-02	.4216-02	2.794	17.72	550.8
435	.00000	.30000	802.00	.1243	.1026	.1154	.4316-02	.3563-02	.4008-02	2.650	16.79	552.4
435	.00000	.35000	803.00	.1278	.1054	.1186	.4439-02	.3660-02	.4120-02	2.704	17.10	557.3
435	.00000	.40000	804.00	.1232	.1015	.1143	.4277-02	.3525-02	.3969-02	2.600	16.91	558.5
435	.00000	.45000	805.00	.1101	.9050-01	.1021	.3824-02	.3148-02	.3547-02	2.307	15.43	562.9
435	.00000	.50000	806.00	.9770-01	.8040-01	.9060-01	.3391-02	.2791-02	.3145-02	2.042	14.07	564.2
435	.00000	.55000	807.00	.9300-01	.7640-01	.8620-01	.3229-02	.2654-02	.2993-02	1.932	14.17	568.0
435	.00000	.60000	808.00	.8810-01	.7240-01	.8170-01	.3060-02	.2515-02	.2837-02	1.829	13.42	568.6
435	.00000	.65000	809.00	.8510-01	.6993-01	.7880-01	.2954-02	.2425-02	.2737-02	1.755	12.85	572.3
435	.00000	.70000	810.00	.8920-01	.7320-01	.8260-01	.3099-02	.2543-02	.2870-02	1.836	13.90	573.8
435	.00000	.75000	811.00	.1023	.8390-01	.9480-01	.3553-02	.2915-02	.3291-02	2.103	15.38	574.5
435	.00000	.80000	812.00	.1213	.9950-01	.1124	.4213-02	.3457-02	.3903-02	2.498	18.28	573.4
435	.00000	.85000	813.00	.1283	.1052	.1201	.4454-02	.3655-02	.4172-02	2.640	19.98	573.6
435	.00000	.90000	814.00	.1361	.1118	.1278	.4728-02	.3884-02	.4439-02	2.819	19.99	570.1
435	.00000	.92500	815.00	.1199	.9650-01	.1129	.4163-02	.3422-02	.3920-02	2.491	20.31	568.0
435	.00000	.95000	816.00	.1313	.1078	.1239	.4559-02	.3744-02	.4304-02	2.713	22.08	571.3
435	.00000	.97500	817.00	.1480	.1213	.1400	.5139-02	.4214-02	.4862-02	3.035	24.65	575.8
435	.00000	1.0150	818.00	.4181	.3397	.3958	.1452-01	.1180-01	.1374-01	8.150	58.71	601.5
435	.00000	1.0300	819.00	.4495	.3656	.4257	.1561-01	.1270-01	.1478-01	8.818	63.64	601.5
435	.00000	1.0600	821.00	.3261	.2651	.3088	.1133-01	.9208-02	.1072-01	6.380	52.09	603.0
435	10.000	.15000	89.000	.4700-02	.3900-02	.4700-02	.1625-03	.1250-03	.1625-03	1.030	1.060	529.9
435	11.500	.20000	91.000	.7700-02	.6400-02	.7700-02	.2666-03	.2216-03	.2666-03	1.700	1.588	529.6
435	14.000	.50000-01	90.000	.1180-01	.9830-02	.1180-01	.4112-03	.3417-03	.4112-03	2.620	1.588	529.6
435	17.500	.40000	823.00	.1131	.9300-01	.1049	.3927-02	.3231-02	.3642-02	2.362	18.60	564.9
435	17.500	.50000	824.00	.1039	.8540-01	.9630-01	.3610-02	.2965-02	.3346-02	2.154	16.92	569.7
435	17.500	.60000	825.00	.7000-01	.5740-01	.6480-01	.2430-02	.1995-02	.2251-02	1.443	12.68	572.5
435	17.500	.70000	826.00	.9220-01	.7570-01	.8540-01	.3856-02	.2627-02	.2957-02	1.893	13.84	575.4
435	17.500	.80000	827.00	.1110	.9110-01	.1029	.4183-02	.3437-02	.3928-02	2.288	16.75	573.0
435	17.500	.90000	828.00	.1205	.9900-01	.1131	.8738-02	.7214-02	.8738-02	2.496	19.60	569.7
435	20.000	.10000+00	103.00	.2520	.2080	.2520	.1684	.1392	.1684	5.369	31.33	553.2
435	20.000	.15000	104.00	.1684	.1392	.1684	.5841-02	.4827-02	.5841-02	3.607	22.89	550.2
435	20.000	.92500	971.00	.5330-01	.4400-01	.5330-01	.1850-02	.1530-02	.1850-02	1.145	8.485	547.7
435	20.000	.95000	975.00	.7240-01	.5990-01	.7240-01	.2516-02	.2080-02	.2516-02	1.556	11.54	547.8
435	20.000	.97500	980.00	.5780-01	.4790-01	.5780-01	.1663-02	.1663-02	.2008-02	1.256	9.330	541.0
435	22.000	.50000-01	105.00	.2343	.1938	.2343	.8125-02	.6720-02	.8125-02	5.043	28.04	547.0
435	24.000	.20000	93.000	.1140-01	.9500-02	.1140-01	.3973-03	.3302-03	.3973-03	2.530	1.579	529.0
435	24.500	.10000+00	106.00	.2662	.2196	.2662	.9230-02	.7616-02	.9230-02	5.653	35.78	555.2
435	25.500	.15000	107.00	.1821	.1502	.1821	.6314-02	.5207-02	.6314-02	3.851	34.08	557.8
435	30.000	.92500	970.00	.4300-01	.3360-01	.4300-01	.1493-02	.1236-02	.1493-02	.9280	6.884	545.2

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(19TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTADT DEG. R /SEC	TW DEG. R
435	30.000	.95000	974.00	.4960-01	.4110-01	.4960-01	.1723-02	.1426-02	.1723-02	1.074	7.975	543.4
435	30.000	.97500	979.00	.4600-01	.3810-01	.4600-01	.1599-02	.1324-02	.1599-02	1.074	7.417	542.2
436	31.500	.20000	109.00	.1242	.1025	.1242	.4308-02	.3555-02	.4308-02	2.638	26.57	555.3
435	32.000	.40000	831.00	.1335	.1100	.1239	.4638-02	.3021-02	.4304-02	2.613	19.43	559.8
435	32.000	.50000	832.00	.1127	.9270-01	.1045	.3916-02	.3219-02	.3630-02	2.343	16.64	568.0
435	32.000	.60000	833.00	.1020	.8370-01	.9450-01	.3542-02	.2907-02	.3281-02	2.100	13.97	573.6
435	32.000	.70000	834.00	.9910-01	.8120-01	.9180-01	.3441-02	.2821-02	.3187-02	2.029	15.33	576.9
435	32.000	.80000	835.00	.1009	.8280-01	.9340-01	.3503-02	.2875-02	.3245-02	2.078	14.72	573.1
435	32.000	.90000	836.00	.1157	.9510-01	.1086	.4017-02	.3303-02	.3773-02	2.408	17.67	567.0
435	32.000	.95000	837.00	.1384	.1138	.1307	.4905-02	.3952-02	.4538-02	2.885	21.92	566.0
435	32.000	.97500	838.00	.1475	.1211	.1396	.5122-02	.4207-02	.4848-02	3.053	23.98	570.2
435	32.000	1.0150	839.00	.3672	.2974	.3330	.1275-01	.1033-01	.1156-01	7.045	55.12	614.0
435	32.000	1.0390	840.00	.4102	.3330	.3724	.1425-01	.1157-01	.1293-01	7.967	60.55	607.2
435	32.000	1.0450	841.00	.3983	.3236	.3617	.1383-01	.1124-01	.1256-01	7.761	57.43	605.4
436	35.000	.50000-01	115.00	.1237	.1025	.1237	.4291-02	.3554-02	.4291-02	2.682	17.08	542.7
436	35.000	.60000	110.00	.1358	.1119	.1358	.4703-02	.3881-02	.4709-02	2.866	18.80	559.1
436	39.000	.10000+00	116.00	.1074	.8900-01	.1074	.3725-02	.3085-02	.3725-02	2.329	14.84	542.3
436	40.000	.76000-01	121.00	.7080-01	.5870-01	.7080-01	.2454-02	.2034-02	.2454-02	1.543	9.848	538.8
436	40.000	.15000	111.00	.2121	.1748	.2121	.7354-02	.6062-02	.7354-02	4.478	33.01	558.7
436	40.000	.20000	112.00	.1274	.1050	.1274	.4416-02	.3639-02	.4416-02	2.685	29.68	559.6
436	42.500	.50000-01	127.00	.8700-01	.7210-01	.8700-01	.3018-02	.2500-02	.3018-02	1.890	12.78	541.3
436	45.000	.15000	117.00	.9070-01	.7520-01	.9070-01	.3146-02	.2606-02	.3146-02	1.972	11.58	540.8
435	45.000	.92500	969.00	.1270-01	.1050-01	.1270-01	.4395-03	.3649-03	.4395-03	2.780	2.078	533.2
435	45.000	.95000	973.00	.1560-01	.1290-01	.1560-01	.5401-03	.4478-03	.5401-03	3.400	2.531	537.4
435	45.000	.97500	978.00	.3350-01	.2770-01	.3350-01	.1163-02	.9635-03	.1163-02	7.290	5.428	539.2
436	51.000	.20000	118.00	.4680-01	.3690-01	.4680-01	.1622-02	.1345-02	.1622-02	1.022	6.524	537.9
436	60.000	.50000-01	131.00	.2170-01	.1800-01	.2170-01	.7531-03	.6250-03	.7531-03	4.770	3.235	534.5
436	67.500	.20000	128.00	.2840-01	.2350-01	.2840-01	.9835-03	.8160-03	.9835-03	6.220	4.636	535.6
435	75.000	.97500	977.00	.2460-01	.2040-01	.2460-01	.8540-03	.7079-03	.8540-03	5.360	3.995	538.3
435	85.000	.97500	976.00	.6000-02	.5000-02	.6000-02	.2075-03	.1723-03	.2075-03	1.320	.9830	532.0
436	105.00	.40100	135.00	.2340-01	.1940-01	.2340-01	.8113-03	.6729-03	.8113-03	5.120	3.967	536.7
436	105.00	.50100	136.00	.2820-01	.2340-01	.2820-01	.9784-03	.8109-03	.9784-03	6.150	4.904	539.4
436	105.00	.60100	137.00	.6500-02	.5000-02	.6500-02	.2952-03	.2448-03	.2952-03	1.860	1.486	537.4
436	105.00	.70100	138.00	.1400-02	.1200-02	.1400-02	.4972-04	.4126-04	.4972-04	3.100-01	.2520	534.9
436	105.00	.80000	139.00	.1000-02	.8000-03	.1000-02	.3318-04	.2756-04	.3318-04	2.100-01	.1690	531.9
436	113.00	.60100	146.00	.1650-01	.1380-01	.1650-01	.5764-03	.4780-03	.5764-03	3.630	2.902	537.3
436	116.00	.60100	147.00	.1410-01	.1170-01	.1410-01	.4900-03	.4064-03	.4900-03	3.090	2.466	537.6
436	116.00	.75100	148.00	.3600-02	.3000-02	.3600-02	.1263-03	.1049-03	.1263-03	8.000-01	.6410	533.4
436	120.00	.10020+00	132.00	.4800-02	.3900-02	.4800-02	.1648-03	.1369-03	.1648-03	1.050	.6350	532.1
436	120.00	.80500	247.00	.1900-02	.1600-02	.1900-02	.6734-04	.5597-04	.6734-04	4.300-01	.3560	529.3
436	120.00	.82900	248.00	.4200-02	.3500-02	.4200-02	.1450-03	.1205-03	.1450-03	9.300-01	.7660	529.7
436	120.00	.86200	249.00	.4100-02	.3400-02	.4100-02	.1411-03	.1173-03	.1411-03	9.000-01	.6620	528.5
436	130.00	.86500	253.00	.1800-02	.1500-02	.1800-02	.6261-04	.5204-04	.6261-04	4.000-01	.3210	529.1

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

RUN NUMBER	TH-ETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1(5TO) BTU/ R F12SEC	H1(TO) BTU/ R F12SEC	H1(TAW) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWOT DEG. R /SEC	TM DEG. R
436	130.00	.82900	254.00	.4000-02	.3300-02	.4000-02	.1395-03	.1159-03	.1395-03	.8900-01	.6940	528.8
436	130.00	.86200	255.00	.5400-02	.4500-02	.5400-02	.1857-03	.1544-03	.1857-03	.1190	.9840	528.3
436	135.00	.40100	142.00	.1600-02	.1300-02	.1600-02	.5391-04	.4479-04	.5391-04	.3400-01	.2670	530.8
436	135.00	.50100	143.00	.1900-02	.1600-02	.1900-02	.6594-04	.5476-04	.6594-04	.4200-01	.3470	532.0
436	135.00	.60100	144.00	.4000-02	.3300-02	.4000-02	.1375-03	.1142-03	.1375-03	.8700-01	.6780	532.8
436	135.00	.70100	145.00	.4000-02	.3400-02	.4000-02	.1404-03	.1156-03	.1404-03	.8900-01	.7160	531.8
436	140.00	.18000	85.000	.8800-02	.7300-02	.8800-02	.3062-03	.2545-03	.3062-03	.1950	1.513	529.4
436	140.00	.19500	87.000	.1060-01	.8800-02	.1060-01	.3679-03	.3055-03	.3679-03	.2340	1.808	531.7
436	145.00	.80500	259.00	.2700-02	.2200-02	.2700-02	.9232-04	.7674-04	.9232-04	.5900-01	.4590	528.7
437	145.00	.82900	260.00	.1140-01	.9500-02	.1140-01	.3957-03	.3291-03	.3957-03	.2540	1.920	525.4
437	145.00	.86200	261.00	.2900-02	.2400-02	.2900-02	.3992-04	.3313-04	.3992-04	.6400-01	.5330	524.4
436	150.00	.16000	86.000	.1720-01	.1430-01	.1720-01	.561-03	.4949-03	.561-03	.3780	2.827	532.7
436	150.00	.18000	84.000	.1630-01	.1350-01	.1630-01	.5652-03	.4694-03	.5652-03	.3590	2.684	532.1
436	155.00	.19000	82.000	.2000-03	.2000-03	.2000-03	.6755-05	.5609-05	.6755-05	.4000-02	.3200-01	532.4
436	155.00	.16000	80.000	.2270-01	.1880-01	.2270-01	.7867-03	.6530-03	.7867-03	.4990	3.722	533.8
436	160.00	.17500	77.000	.1330-01	.1110-01	.1330-01	.4623-03	.3839-03	.4623-03	.2930	2.348	532.9
436	175.00	.15000	81.000	.5760-01	.4780-01	.5760-01	.1999-02	.1658-02	.1999-02	1.261	9.094	536.8
436	175.00	.16500	79.000	.2000-01	.1660-01	.2000-01	.5329-03	.5752-03	.5329-03	.4390	3.281	533.4
436	175.00	.17500	78.000	.3580-01	.2970-01	.3580-01	.1242-02	.1031-02	.1242-02	.7860	5.675	534.8
435	180.00	.10000-01	59.000	.1011	.8380-01	.1011	.3513-02	.2912-02	.3513-02	2.206	16.43	538.3
435	180.00	.25000-01	60.000	.2670-01	.2210-01	.2670-01	.3660-03	.7687-03	.3660-03	.5860	4.237	533.1
435	180.00	.50000-01	61.000	.1350-01	.1120-01	.1350-01	.4686-03	.3891-03	.4686-03	.2970	1.903	532.2
435	180.00	.75000-01	62.000	.1280-01	.1060-01	.1280-01	.4443-03	.3689-03	.4443-03	.2820	1.805	532.0
435	180.00	.10000+00	63.000	.2200-01	.1820-01	.2200-01	.7630-03	.6334-03	.7630-03	.4840	3.187	532.6
435	180.00	.12500	64.000	.2770-01	.2300-01	.2770-01	.9622-03	.7988-03	.9622-03	.6100	4.269	532.7
435	180.00	.15200	65.000	.3690-01	.3060-01	.3690-01	.1280-02	.1063-02	.1280-02	.8110	5.677	533.0
435	180.00	.16000	66.000	.9680-01	.8030-01	.9680-01	.3362-02	.2787-02	.3362-02	2.114	11.81	537.6
435	180.00	.17000	67.000	.1116	.9240-01	.1116	.3875-02	.3211-02	.3875-02	2.428	13.55	539.6
435	180.00	.20000	69.000	.1930-01	.1600-01	.1930-01	.6695-03	.5561-03	.6695-03	.4250	2.650	531.0
435	180.00	.40100	72.000	.4300-02	.3600-02	.4300-02	.1493-03	.1240-03	.1493-03	.9500-01	.8120	530.7
435	180.00	.50000	73.000	.5500-02	.4600-02	.5500-02	.1907-03	.1584-03	.1907-03	.1210	1.036	531.1
435	180.00	.60100	74.000	.5600-02	.4600-02	.5600-02	.1943-03	.1614-03	.1943-03	.1230	1.021	531.3
435	180.00	.70100	75.000	.4900-02	.4100-02	.4900-02	.1701-03	.1414-03	.1701-03	.1080	.8690	529.7

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OH-49B (AEDC V41B-57A) ORBITER FUSELAGE

(RV1B45)

FUSELAGE

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = -30.00 SPOBRK = 40.00  
BDFLAP = 15.00 MACH = 8.0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
429	8.000	3.702	40.10	.0000	180.0	859.5	.8300-01	1354.	98.10	3.944	3882.	.7530-04
430	8.000	3.714	40.16	.0000	180.0	859.2	.8300-01	1350.	97.90	3.943	3878.	.7545-04
431	8.000	3.718	40.07	.0000	180.0	858.8	.8300-01	1349.	97.80	3.941	3876.	.7549-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR R =
429	LB-SEC /FT2		0.0175
430	.7897-07		.2109-01
431	.7879-07		.2107-01
431	.7871-07		.2106-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H/STO BTU/ R FT2SEC	H/TO BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DT/DT DEG. R /SEC	TW DEG. R
429	.00000	.00000	1.0000	.5941	.4882	.5310	.2918-01	.2398-01	.2608-01	18.21	98.88	594.4
429	.00000	.50000-02	2.0000	.6995	.5713	.5713	.3436-01	.2806-01	.2806-01	20.72	139.3	615.1
429	.00000	.10000-01	3.0000	.6098	.4994	.5053	.2995-01	.2453-01	.2482-01	18.34	120.1	605.9
429	.00000	.20000-01	4.0000	.4349	.3594	.3734	.2365-01	.1765-01	.1834-01	13.77	75.54	573.8
429	.00000	.30000-01	5.0000	.3345	.2770	.2922	.1643-01	.1360-01	.1435-01	10.71	58.97	566.6
429	.00000	.40000-01	6.0000	.2891	.2396	.2555	.1420-01	.1177-01	.1255-01	9.317	51.42	562.2
429	.00000	.50000-01	7.0000	.2787	.2301	.2478	.1363-01	.1130-01	.1217-01	8.776	58.27	577.2
429	.00000	.60000-01	8.0000	.2816	.2329	.2522	.1383-01	.1144-01	.1239-01	8.947	56.17	571.4
429	.00000	.70000-01	9.0000	.2462	.2033	.2217	.1209-01	.9985-02	.1089-01	7.754	53.09	577.1
429	.00000	.80000-01	10.000	.1984	.1641	.1797	.9743-02	.8059-02	.8826-02	6.311	43.36	570.6
429	.00000	.90000-01	11.000	.1885	.1562	.1715	.9658-02	.7670-02	.8423-02	6.054	38.14	564.3
429	.00000	.10000+00	12.000	.1754	.1453	.1601	.8614-02	.7136-02	.7865-02	5.631	33.55	564.6
429	.00000	.12000	14.000	.1635	.1356	.1501	.8730-02	.6662-02	.7372-02	5.294	29.26	559.0
429	.00000	.13000	15.000	.1554	.1288	.1428	.7631-02	.6328-02	.7016-02	5.017	29.16	560.9
429	.00000	.14000	16.000	.1425	.1181	.1311	.6999-02	.5802-02	.6441-02	4.590	28.94	562.6
429	.00000	.15000	18.000	.1504	.1246	.1386	.7388-02	.6118-02	.6810-02	4.817	29.48	566.3
429	.00000	.17000	19.000	.1498	.1240	.1382	.7558-02	.6089-02	.6789-02	4.781	30.06	568.6

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AEDC VKF V419-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V419-57A) ORBITER FUSELAGE

(RV1845)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/R FT2SEC	H(1TO) BTU/R FT2SEC	H(TAN) BTU/R FT2SEC	ODOT BTU/R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
429	.00000	.18000	20.000	.1530	.1266	.1413	.7515-02	.6218-02	.6938-02	4.875	30.63	569.7
429	.00000	.19000	21.000	.1451	.1202	.1342	.7126-02	.5902-02	.6590-02	4.652	29.30	565.4
429	.00000	.20000	22.000	.1439	.1190	.1332	.7067-02	.5846-02	.6540-02	4.583	28.79	569.8
429	.00000	.22500	23.000	.1337	.1167	.1241	.6569-02	.5436-02	.6096-02	4.267	26.83	568.7
429	.00000	.25000	801.00	.1304	.1079	.1212	.6405-02	.5298-02	.5952-02	4.151	26.07	570.3
429	.00000	.30000	802.00	.1236	.1022	.1148	.6070-02	.5018-02	.5639-02	3.918	24.58	572.9
429	.00000	.35000	803.00	.1286	.1061	.1193	.6315-02	.5209-02	.5862-02	4.028	25.18	580.4
429	.00000	.40000	804.00	.1230	.1014	.1141	.6041-02	.4979-02	.5606-02	3.835	24.64	583.5
429	.00000	.45000	805.00	.1120	.9220-01	.1038	.5499-02	.4528-02	.5100-02	3.470	22.92	587.3
429	.00000	.50000	806.00	.1031	.8480-01	.9560-01	.5065-02	.4167-02	.4696-02	3.181	21.64	590.3
429	.00000	.55000	807.00	.1062	.8720-01	.9840-01	.5215-02	.4282-02	.4832-02	3.238	23.42	597.4
429	.00000	.60000	808.00	.1299	.1065	.1203	.6378-02	.5232-02	.5907-02	3.939	28.43	600.8
429	.00000	.65000	809.00	.2029	.1656	.1875	.9568-02	.8134-02	.9212-02	5.986	42.85	617.8
429	.00000	.70000	810.00	.3042	.2470	.2806	.1494-01	.1213-01	.1378-01	8.737	64.22	633.6
429	.00000	.75000	811.00	.3606	.2923	.3323	.1771-01	.1436-01	.1632-01	10.27	72.62	638.2
429	.00000	.80000	812.00	.3630	.2943	.3345	.1783-01	.1445-01	.1643-01	10.33	73.22	638.8
429	.00000	.85000	813.00	.3443	.2791	.3211	.1691-01	.1371-01	.1577-01	9.805	71.89	638.5
429	.00000	.90000	814.00	.3240	.2634	.3031	.1592-01	.1294-01	.1489-01	9.352	64.39	630.7
429	.00000	.92500	815.00	.2855	.2326	.2681	.1403-01	.1142-01	.1317-01	8.340	66.16	623.6
429	.00000	.95000	816.00	.2850	.2316	.2681	.1400-01	.1138-01	.1317-01	8.221	64.98	631.1
429	.00000	.97500	817.00	.3049	.2471	.2875	.1498-01	.1214-01	.1412-01	8.665	68.20	639.8
429	.00000	1.0150	818.00	.4596	.3702	.4339	.2257-01	.1818-01	.2131-01	12.65	88.83	657.9
429	.00000	1.0300	819.00	.4303	.3476	.4066	.2114-01	.1707-01	.1997-01	12.02	84.73	649.7
429	.00000	1.0600	821.00	.3282	.2648	.3100	.1612-01	.1301-01	.1523-01	9.123	72.72	652.3
429	.00000	1.5000	89.000	.5600-02	.4700-02	.5600-02	.2757-03	.2301-03	.2757-03	.1880	1.139	535.4
429	.00000	2.0000	91.000	.7900-02	.6600-02	.7900-02	.3894-03	.3250-03	.3894-03	.2660	1.652	535.7
429	.00000	5.0000-01	90.000	.9500-02	.7900-02	.9500-02	.4675-03	.3902-03	.4675-03	.3190	1.933	534.9
429	.00000	4.0000	823.00	.1121	.9220-01	.1039	.5507-02	.4327-02	.5105-02	3.445	26.75	592.8
429	.00000	.50000	824.00	.1058	.8680-01	.9800-01	.5196-02	.4262-02	.4812-02	3.208	24.81	600.9
429	.00000	.60000	825.00	.9430-01	.7720-01	.8730-01	.4632-02	.3793-02	.4287-02	2.836	24.50	606.1
429	.00000	.70000	826.00	.3652	.2967	.3374	.1799-01	.1457-01	.1657-01	10.39	73.59	640.5
429	.00000	.80000	827.00	.3525	.2860	.3250	.1731-01	.1405-01	.1596-01	10.09	71.59	635.7
429	.00000	.90000	828.00	.2857	.2323	.2673	.1403-01	.1141-01	.1313-01	8.267	63.06	629.2
430	.00000	1.0000+00	103.00	.2548	.2110	.2548	.1251-01	.1036-01	.1251-01	8.131	47.16	565.3
430	.00000	.15000	104.00	.1675	.1388	.1675	.8220-02	.6812-02	.8220-02	5.369	33.86	562.2
429	.00000	.92500	971.00	.1116	.9220-01	.1116	.5480-02	.4326-02	.5480-02	3.522	25.74	575.6
429	.00000	.95000	975.00	.1196	.9890-01	.1196	.5873-02	.4856-02	.5873-02	3.795	27.79	572.2
429	.00000	.97500	980.00	.8050-01	.6680-01	.8050-01	.3952-02	.3280-02	.3952-02	2.611	19.25	557.7
430	.00000	.50000-01	105.00	.2325	.1931	.2325	.1141-01	.9480-02	.1141-01	7.554	41.87	553.6
429	.00000	.20000	93.000	.1370-01	.1150-01	.1370-01	.6747-03	.5630-03	.6747-03	.4600	2.860	536.0
430	.00000	1.0000+00	106.00	.2653	.2195	.2653	.1302-01	.1077-01	.1302-01	8.424	52.96	568.5
430	.00000	.15000	107.00	.1832	.1513	.1832	.8934-02	.7428-02	.8934-02	5.762	50.56	574.7
429	.00000	.92500	970.00	.8820-01	.7290-01	.8820-01	.4331-02	.3582-02	.4331-02	2.804	20.55	570.8

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV1845)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1TAH) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTADT DEG. R /SEC	TW DEG. R
429	30.000	.95000	974.00	.8430-01	.6980-01	.8430-01	.4142-02	.3430-02	.4142-02	2.701	19.83	566.3
429	30.000	.97500	979.00	.7120-01	.5900-01	.7120-01	.3495-02	.2898-02	.3495-02	2.297	16.91	561.0
429	31.500	.20000	108.00	.1274	.1053	.1274	.6256-02	.5171-02	.6256-02	4.025	40.19	572.1
429	32.000	.40000	831.00	.1341	.1105	.1245	.6588-02	.5430-02	.6113-02	4.179	28.52	583.9
429	32.000	.50000	832.00	.1094	.8980-01	.1013	.5371-02	.4410-02	.4976-02	3.336	23.35	597.3
429	32.000	.60000	833.00	.1207	.9890-01	.1117	.5930-02	.4856-02	.5488-02	3.629	23.75	606.3
429	32.000	.70000	834.00	.1983	.1615	.1831	.9741-02	.7933-02	.8994-02	5.785	42.71	624.4
429	32.000	.80000	835.00	.3258	.2847	.3005	.1600-01	.1300-01	.1476-01	9.399	64.70	630.0
429	32.000	.90000	836.00	.2991	.2436	.2800	.1469-01	.1196-01	.1375-01	8.725	62.27	624.3
429	32.000	.95000	837.00	.2795	.2282	.2633	.1373-01	.1121-01	.1293-01	8.274	61.34	624.9
429	32.000	.97500	838.00	.2836	.2309	.2677	.1393-01	.1134-01	.1315-01	8.266	63.18	624.9
429	32.000	1.0150	839.00	.4702	.3756	.4234	.2309-01	.1845-01	.2080-01	12.42	94.12	680.5
429	32.000	1.0300	840.00	.4205	.3382	.3799	.2065-01	.1642-01	.1866-01	11.49	84.74	662.1
429	32.000	1.0450	841.00	.4152	.3343	.3753	.2035-01	.1642-01	.1844-01	11.40	82.77	659.3
430	35.000	.50000-01	115.00	.1247	.1037	.1247	.6119-02	.5091-02	.6119-02	4.093	26.02	546.5
430	35.000	.20000	110.00	.1351	.1115	.1351	.6632-02	.5473-02	.6632-02	4.231	26.13	577.5
430	39.000	.10000-00	116.00	.1047	.8710-01	.1047	.5139-02	.4277-02	.5139-02	3.443	21.90	545.4
430	40.000	.76000-01	121.00	.7120-01	.5930-01	.7120-01	.3497-02	.2913-02	.3497-02	2.355	15.00	542.1
430	40.000	.15000	111.00	.2102	.1736	.2102	.1032-01	.8520-02	.1032-01	6.607	48.31	575.0
430	40.000	.20000	112.00	.1253	.1034	.1253	.6151-02	.5076-02	.6151-02	3.921	42.94	578.0
430	42.500	.50000-01	127.00	.8660-01	.7210-01	.8660-01	.4249-02	.3538-02	.4249-02	2.859	19.31	542.6
430	45.000	.15000	117.00	.9380-01	.7800-01	.9380-01	.4602-02	.3831-02	.4602-02	3.089	18.11	544.3
429	45.000	.92500	969.00	.2860-01	.2380-01	.2860-01	.1407-02	.1171-02	.1407-02	9.430	6.986	548.3
429	45.000	.95000	973.00	.3090-01	.2570-01	.3090-01	.1518-02	.1261-02	.1518-02	1.009	7.458	553.6
430	45.000	.97500	978.00	.5130-01	.4260-01	.5130-01	.2518-02	.2091-02	.2518-02	1.668	12.31	556.0
430	51.000	.20000	118.00	.4650-01	.3880-01	.4650-01	.2285-02	.1903-02	.2285-02	1.539	9.808	541.7
430	60.000	.50000-01	131.00	.2090-01	.1740-01	.2090-01	.1025-02	.8557-03	.1025-02	.6990	4.740	534.1
430	67.500	.20000	128.00	.2280-01	.2280-01	.2740-01	.1344-02	.1120-02	.1344-02	.9070	6.751	540.1
429	75.000	.97500	977.00	.3830-01	.3180-01	.3830-01	.1882-02	.1563-02	.1882-02	1.252	9.253	553.1
429	85.000	.97500	976.00	.5400-02	.4500-02	.5400-02	.2643-03	.2203-03	.2643-03	1.790	1.330	541.6
430	105.00	.40100	135.00	.2270-01	.1890-01	.2270-01	.1116-02	.9290-03	.1116-02	.7500	5.788	543.2
430	105.00	.50100	136.00	.5260-01	.4370-01	.5260-01	.2582-02	.2146-02	.2582-02	1.715	13.58	551.3
430	105.00	.60100	137.00	.1330-01	.1110-01	.1330-01	.6544-03	.5445-03	.6544-03	4.380	3.479	546.3
430	105.00	.70100	138.00	.2600-02	.2100-02	.2600-02	.1253-03	.1043-03	.1253-03	.8400-01	.6710	542.8
430	105.00	.80000	139.00	.1400-02	.1200-02	.1400-02	.7093-04	.5913-04	.7093-04	.4800-01	.3830	538.9
430	113.00	.60100	146.00	.3090-01	.2570-01	.3090-01	.1518-02	.1263-02	.1518-02	1.013	8.035	548.4
430	116.00	.60100	147.00	.2330-01	.1940-01	.2330-01	.1143-02	.9504-03	.1143-02	.7630	6.053	547.9
430	116.00	.75100	148.00	.3000-02	.2500-02	.3000-02	.1496-03	.1247-03	.1496-03	1.010	.8050	540.4
430	120.00	.10000-00	132.00	.4400-02	.3700-02	.4400-02	.2170-03	.1812-03	.2170-03	1.480	.8970	532.7
430	120.00	.80500	247.00	.3900-02	.3300-02	.3900-02	.1928-03	.1609-03	.1928-03	1.310	1.084	534.4
430	120.00	.82900	248.00	.3200-02	.2700-02	.3200-02	.1592-03	.1329-03	.1592-03	1.080	.8960	534.0
430	120.00	.86200	249.00	.4500-02	.3700-02	.4500-02	.2205-03	.1840-03	.2205-03	1.500	1.101	533.2
430	130.00	.80500	253.00	.4800-02	.4000-02	.4800-02	.2359-03	.1968-03	.2359-03	1.610	1.286	534.2

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER FUSELAGE

(RV18451)

RUN NUMBER	THETA	X/L	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(GTO) BTU/ R FT2SEC	H(GTO) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DT/DT DEG. R /SEC	TH DEG. R
430	130.00	.82900	254.00	.5700-02	.4700-02	.5700-02	.2775-03	.2316-03	.2775-03	.1890	1.471	533.0
430	130.00	.86200	255.00	.4500-02	.3800-02	.4500-02	.2231-03	.1862-03	.2231-03	.1520	1.261	532.1
430	135.00	.40100	142.00	.1600-02	.1400-02	.1600-02	.7959-04	.6641-04	.7959-04	.5400-01	.4200	535.1
430	135.00	.50100	143.00	.1800-02	.1500-02	.1800-02	.8675-04	.7234-04	.8675-04	.5900-01	.4850	537.2
430	135.00	.60100	144.00	.4400-02	.3700-02	.4400-02	.2183-03	.1820-03	.2183-03	.1480	1.144	538.7
430	135.00	.70100	145.00	.6100-02	.5100-02	.6100-02	.3008-03	.2509-03	.3008-03	.2040	1.629	537.4
430	140.00	.18000	85.000	.7100-02	.5900-02	.7100-02	.3471-03	.2898-03	.3471-03	.2370	1.834	532.0
430	145.00	.80500	259.00	.8200-02	.6800-02	.8200-02	.4018-03	.3353-03	.4018-03	.2740	2.112	534.4
431	145.00	.82900	260.00	.5400-02	.4500-02	.5400-02	.2654-03	.2215-03	.2654-03	.1810	1.405	533.3
431	145.00	.86200	261.00	.1000-02	.9000-03	.1000-02	.5017-04	.4187-04	.5017-04	.2570	2.570	533.4
430	150.00	.16000	86.000	.4200-02	.3500-02	.4200-02	.2081-03	.1738-03	.2081-03	.1420	1.175	531.8
430	150.00	.18000	84.000	.1060-01	.8800-02	.1060-01	.5203-03	.4341-03	.5203-03	.3540	2.642	534.7
430	150.00	.19000	82.000	.1550-01	.1290-01	.1550-01	.7595-03	.6337-03	.7595-03	.5170	3.853	535.2
430	155.00	.16000	80.000	.3000-03	.3000-03	.3000-03	.1615-04	.1347-04	.1615-04	.1100-01	.8200-01	535.1
430	150.00	.18000	77.000	.1170-01	.9800-02	.1170-01	.5752-03	.4798-03	.5752-03	.5200	3.877	535.9
430	175.00	.15000	81.000	.5820-01	.4850-01	.5820-01	.2858-02	.2380-02	.2858-02	.3910	3.121	536.2
430	175.00	.16500	79.000	.2310-01	.1930-01	.2310-01	.1134-02	.9460-03	.1134-02	1.922	13.82	542.9
430	180.00	.17500	78.000	.3680-01	.3070-01	.3680-01	.1806-02	.1505-02	.1806-02	.7690	5.731	537.4
429	180.00	.10000-01	59.000	.9950-01	.8290-01	.9950-01	.4889-02	.4070-02	.4889-02	1.220	8.791	539.6
429	180.00	.25000-01	60.000	.2460-01	.2050-01	.2460-01	.1208-02	.1007-02	.1208-02	3.285	24.37	546.4
429	180.00	.50000-01	61.000	.1300-01	.1090-01	.1300-01	.6400-03	.5339-03	.6400-03	.8210	5.919	538.4
429	180.00	.75000-01	62.000	.1480-01	.1240-01	.1480-01	.7290-03	.6080-03	.7290-03	.4360	2.785	537.0
429	180.00	.10000*00	63.000	.2570-01	.2140-01	.2570-01	.1263-02	.1053-02	.1263-02	.4960	3.167	538.0
429	180.00	.12500	64.000	.3040-01	.2540-01	.3040-01	.1496-02	.1247-02	.1496-02	1.014	7.070	540.5
429	180.00	.15000	65.000	.3400-01	.2830-01	.3400-01	.1671-02	.1392-02	.1671-02	1.132	7.895	540.6
429	180.00	.16000	66.000	.9210-01	.7660-01	.9210-01	.4523-02	.3762-02	.4523-02	3.023	16.79	549.9
429	180.00	.17000	67.000	.1166	.9700-01	.1166	.5726-02	.4762-02	.5726-02	3.828	21.26	549.8
429	180.00	.20000	69.000	.1660-01	.1390-01	.1660-01	.8174-03	.6816-03	.8174-03	.5560	3.449	549.8
429	180.00	.40100	72.000	.6900-02	.5800-02	.6900-02	.3393-03	.2830-03	.3393-03	.2310	1.968	537.4
429	180.00	.50000	73.000	.8600-02	.7200-02	.8600-02	.4248-03	.3542-03	.4248-03	.2890	2.460	538.2
429	180.00	.60100	74.000	.7100-02	.6000-02	.7100-02	.3511-03	.2928-03	.3511-03	.2390	1.968	538.2
429	180.00	.70100	75.000	.5700-02	.4800-02	.5700-02	.2793-03	.2335-03	.2793-03	.1910	1.524	536.9

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-498) COLLATION DECK

PAGE 638

OH-498 (AEDC V41B-57A) ORBITER UPPER WING

(RV1U01)

## UPPER WING

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
166	7.900	.5480	20.01	.0000	180.0	109.3	.1200-01	1251.	92.80	.5310	3729.	.1098-04
167	7.900	.5523	20.02	.0000	180.0	110.3	.1200-01	1252.	92.90	.5350	3731.	.1107-04
168	7.900	.5422	20.03	.0000	180.0	108.6	.1200-01	1255.	93.10	.5270	3734.	.1088-04

RUN NUMBER	MJ LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
166	.7472-07	.1777-01	0.0175
167	.7478-07	.1785-01	.5480-01
168	.7493-07	.1772-01	.5507-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1(5T) BTU/ R FT2SEC	H1(TO) BTU/ R FT2SEC	H1(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	OTDOT DEG. R /SEC	TH DEG. R
167	.25000	.85000-01	938.00	.5500-02	.4500-02	.5500-02	.9841-04	.8110-04	.9841-04	.5800-01	.4290	540.6
167	.25000	.13500	939.00	.3800-02	.3100-02	.3800-02	.6808-04	.5610-04	.6808-04	.4000-01	.1780	540.5
167	.25000	.22500	940.00	.6200-02	.5100-02	.6200-02	.1102-03	.9083-04	.1102-03	.6500-01	.1800	541.4
167	.40000	.50000-01	941.00	.2350-01	.1940-01	.2350-01	.4199-03	.3456-03	.4199-03	.2450	2.180	544.4
167	.40000	.20000	942.00	.8300-02	.6900-02	.8300-02	.1489-03	.1226-03	.1489-03	.8700-01	.6460	543.2
167	.40000	.40000	943.00	.1900-02	.1600-02	.1900-02	.3436-04	.2829-04	.3436-04	.2000-01	.1660	542.9
167	.40000	.60000	944.00	.9000-03	.7000-03	.9000-03	.1604-04	.1321-04	.1604-04	.9000-02	.9500-01	541.8
167	.40000	.95000	945.00	.1800-02	.1500-02	.1800-02	.3236-04	.2671-04	.3236-04	.1900-01	.1710	535.8
167	.60000	.25000-01	946.00	.1128	.9220-01	.1128	.2014-02	.1646-02	.2014-02	1.129	22.60	566.6
167	.60000	.50000-01	947.00	.1139	.9350-01	.1139	.2034-02	.1669-02	.2034-02	1.163	14.31	555.5
167	.60000	.10000+00	948.00	.5790-01	.4760-01	.5790-01	.1034-02	.8505-03	.1034-02	.6010	5.346	546.2
167	.60000	.20000	949.00	.1800-01	.1480-01	.1800-01	.3218-03	.2650-03	.3218-03	.1880	1.444	543.2
167	.60000	.60000	951.00	.1800-02	.1500-02	.1800-02	.3197-04	.2636-04	.3197-04	.1900-01	.1680	539.3
167	.60000	.85000	952.00	.1400-02	.1100-02	.1400-02	.2474-04	.2042-04	.2474-04	.1500-01	.1170	535.4
167	.60000	.95000	953.00	.2600-02	.2100-02	.2600-02	.4639-04	.3830-04	.4639-04	.2800-01	.3240	534.1
167	.70000	.20000	954.00	.2420-01	.1990-01	.2420-01	.4313-03	.3553-03	.4313-03	.2530	2.087	541.5
167	.70000	.10000	955.00	.8200-02	.6800-02	.8200-02	.1463-03	.1206-03	.1463-03	.8600-01	.7110	539.8

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



(RV1U011)

AEDC VKF V41B-57A (CH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

DATE 25 AUG 76

RUN NUMBER	2V/8	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9T0) BTU/R FT2SEC	H(10) BTU/R FT2SEC	H(1AW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
167	.70000	.90000	956.00	.9000-03	.8000-03	.9000-03	.1696-04	.1401-04	.1696-04	.1000-01	.8400-01	532.8
167	.75000	.10000+00	957.00	.7150-01	.5890-01	.7150-01	.1277-02	.1052-02	.1277-02	.7470	6.169	542.3
167	.75000	.20000	958.00	.2970-01	.2450-01	.2970-01	.5303-03	.4371-03	.5303-03	.3110	2.781	539.8
167	.75000	.40000	959.00	.1250-01	.1030-01	.1250-01	.2233-03	.1842-03	.2233-03	.1320	1.131	538.0
167	.75000	.60000	960.00	.7500-02	.6500-02	.7500-02	.1403-03	.1158-03	.1403-03	.8300-01	.7120	537.0
167	.75000	.80000	961.00	.2400-02	.2000-02	.2400-02	.4286-04	.3541-04	.4286-04	.2500-01	.2120	532.1
167	.80000	.90000	962.00	.4200-02	.3500-02	.4200-02	.7584-04	.6267-04	.7584-04	.4500-01	.3560	531.0
167	.90000	.20000	964.00	.2860-01	.2360-01	.2860-01	.5107-03	.4214-03	.5107-03	.3020	2.700	536.2
167	.90000	.40000	965.00	.9700-02	.8000-02	.9700-02	.1730-03	.1428-03	.1730-03	.1030	.9190	534.0
167	.95000	.40000	967.00	.1420-01	.1170-01	.1420-01	.2531-03	.2090-03	.2531-03	.1500	1.123	533.0
167	.95000	.80000	968.00	.2100-02	.1700-02	.2100-02	.3769-04	.3116-04	.3769-04	.2200-01	.1740	530.4

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-498) COLLATION DECK

PAGE 640

UPPER WING

OH-498 (AEDC V41B-57A) ORBITER UPPER WING

(RV1U01)

## PARAMETRIC DATA

ALPHA = 20.0C BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = .000C MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
139	7.940	1.009	20.02	.0000	180.0	209.1	.2200-01	1272.	93.50	.9920	3762.	.2018-04
140	7.940	1.028	20.03	.0000	180.0	211.6	.2000-01	1266.	93.10	1.004	3753.	.2051-04
141	7.940	1.027	20.03	.0000	180.0	211.1	.2300-01	1265.	92.90	1.002	3751.	.2049-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
139	.7526-07	.2437-01	0.0175
140	.7492-07	.2450-01	.4049-01
141	.7483-07	.2446-01	.4014-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(TAN) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DT/DT DEG. R /SEC	TH DEG. R
140	.25000	.85000-01	938.00	.4900-02	.4000-02	.4900-02	.1189-03	.9817-04	.1189-03	.7100-01	.5290	541.4
140	.25000	.13500	939.00	.3100-02	.2600-02	.3100-02	.7667-04	.6328-04	.7667-04	.4600-01	.2050	541.4
140	.25000	.22500	940.00	.5100-02	.5100-02	.6100-02	.1506-03	.1243-03	.1506-03	.9000-01	.2510	542.1
140	.40000	.50000-01	941.00	.2230-01	.1840-01	.2230-01	.5462-03	.4499-03	.5462-03	.3230	2.872	548.4
140	.40000	.20000	942.00	.1000-01	.8300-02	.1000-01	.2454-03	.2022-03	.2454-03	.1460	1.079	546.8
140	.40000	.00000	943.00	.1500-02	.1300-02	.1500-02	.3746-04	.3088-04	.3746-04	.2200-01	.1830	545.7
140	.40000	.60000	944.00	.9000-03	.7000-03	.9000-03	.2174-04	.1793-04	.2174-04	.1300-01	.1310	544.3
140	.40000	.95000	945.00	.2600-02	.2100-02	.2600-02	.5331-04	.5227-04	.5331-04	.3800-01	.3390	540.3
140	.60000	.25000-01	946.00	.1158	.9430-01	.1158	.2636-02	.2310-02	.2636-02	1.579	31.36	583.1
140	.60000	.50000-01	947.00	.1134	.9300-01	.1134	.2779-02	.2278-02	.2779-02	1.601	19.61	563.8
140	.60000	.10000+00	948.00	.5253-01	.4320-01	.5250-01	.1285-02	.1057-02	.1285-02	.7560	6.707	551.9
140	.60000	.20000	949.00	.1720-01	.1420-01	.1720-01	.4215-03	.3472-03	.4215-03	.2490	1.913	547.9
140	.60000	.40000	950.00	.2700-02	.2300-02	.2700-02	.5601-04	.5442-04	.6601-04	.3900-01	.3360	545.3
140	.60000	.60000	951.00	.8000-03	.6000-03	.8000-03	.1890-04	.1559-04	.1890-04	.1100-01	.1000+00	543.5
140	.60000	.85000	952.00	.3000-03	.2000-03	.3000-03	.5551-05	.4708-05	.6551-05	.4000-02	.3100-01	540.4
140	.60000	.95000	953.00	.2600-02	.2100-02	.2600-02	.5378-04	.5267-04	.6378-04	.3800-01	.4500	539.8
140	.70000	.20000	954.00	.2330-01	.1920-01	.2330-01	.5702-03	.4697-03	.5702-03	.3370	2.778	548.2

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

DATE 25 AUG 76

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAK)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	ODOI BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
140	.70000	.40000	955.00	.1000-01	.8200-02	.1030-01	.2448-03	.2018-03	.2448-03	.1450	1.200	545.3
140	.70000	.90000	956.00	.1900-02	.1600-02	.1930-02	.4662-04	.3850-04	.4662-04	.2800-01	2320	539.3
140	.75000	.10000+00	957.00	.7640-01	.6280-01	.7640-01	.1871-02	.1540-02	.1871-02	1.102	9.058	551.0
140	.75000	.20000	958.00	.3020-01	.2480-01	.3020-01	.7389-03	.6085-03	.7389-03	.4370	3.886	548.3
140	.75000	.40000	959.00	.1320-01	.1090-01	.1320-01	.3236-03	.2668-03	.3236-03	.1920	1.647	545.5
140	.75000	.60000	960.00	.8100-02	.6730-02	.8100-02	.1995-03	.1645-03	.1995-03	.1190	1.019	543.5
140	.75000	.90000	962.00	.2900-02	.2400-02	.2930-02	.7032-04	.5807-04	.7032-04	.4200-01	.3490	539.3
140	.80000	.90000	963.00	.3500-02	.2900-02	.3500-02	.8611-04	.7112-04	.8611-04	.5200-01	.4060	536.8
140	.90000	.20000	964.00	.3520-01	.2900-01	.3520-01	.8621-03	.7105-03	.8621-03	.5120	4.555	546.3
140	.90000	.40000	965.00	.9100-02	.7500-02	.9130-02	.2218-03	.1630-03	.2218-03	.1330	1.182	542.2
140	.95000	.40000	967.00	.1610-01	.1330-01	.1610-01	.3938-03	.3250-03	.3938-03	.2350	1.750	542.2
140	.95000	.60000	968.00	.2500-02	.2100-02	.2530-02	.6243-04	.5155-04	.6243-04	.3800-01	.2890	538.9

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) CRITTER UPPER WING

(RV1U01)

## UPPER WING

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 SOFLAP = .0000 MACH = 8.0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
119	7.970	1.511	20.00	.0000	180.0	321.3	.3400-01	1285.	93.80	1.499	3782.	.3017-04
120	7.970	1.510	20.00	.0000	180.0	318.0	.3300-01	1277.	93.20	1.484	3770.	.3005-04
227	7.970	1.497	19.94	.0000	180.0	319.7	.3400-01	1289.	94.10	1.492	3788.	.2993-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
119	.7549-07	.3001-01	0.0175
120	.7501-07	.2982-01	.3315-01
227	.7573-07	.2995-01	.3319-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H19T01 BTU/ R FT <sup>2</sup> SEC	H1C01 BTU/ R FT <sup>2</sup> SEC	H1TAM BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTAOT DEG. R /SEC	TM DEG. R
119	.25000	.85000-01	938.00	.4900-02	.4000-02	.4900-02	.1461-03	.1209-03	.1461-03	.9000-01	.6680	541.8
119	.25000	.13500	939.00	.3600-02	.3000-02	.3600-02	.1086-03	.8979-04	.1086-03	.6700-01	.2980	541.9
119	.25000	.22500	940.00	.7100-02	.5500-02	.7100-02	.2127-03	.1759-03	.2127-03	.1310	.3640	543.1
119	.40000	.50000-01	941.00	.2350-01	.1940-01	.2350-01	.7055-03	.5820-03	.7055-03	.4270	3.795	550.9
119	.40000	.20000	942.00	.1030-01	.8500-02	.1030-01	.3094-03	.2554-03	.3094-03	.1880	1.394	548.5
119	.40000	.40000	943.00	.2000-02	.1700-02	.2000-02	.6002-04	.4956-04	.6002-04	.3700-01	.3010	547.7
119	.40000	.60000	944.00	.7000-03	.6000-03	.7000-03	.2059-04	.1701-04	.2059-04	.1300-01	.1270	547.1
119	.40000	.95000	945.00	.1400-02	.1200-02	.1400-02	.4190-04	.3464-04	.4190-04	.2600-01	.8290	543.4
119	.60000	.25000-01	946.00	.1160	.9440-01	.1160	.3483-02	.2832-02	.3483-02	1.948	38.41	597.2
119	.60000	.50000-01	947.00	.1157	.9490-01	.1157	.3472-02	.2847-02	.3472-02	2.031	24.79	571.7
119	.60000	.10000+00	948.00	.5220-01	.4310-01	.5220-01	.1568-02	.1292-02	.1568-02	.9450	8.377	553.9
119	.60000	.20000	949.00	.1700-01	.1400-01	.1700-01	.5788-03	.4199-03	.5088-03	.3090	2.367	549.5
119	.60000	.40000	950.00	.4500-02	.3700-02	.4500-02	.1359-03	.1122-03	.1359-03	.8300-01	.7080	547.5
119	.60000	.60000	951.00	.8000-03	.7000-03	.8000-03	.2469-04	.2040-04	.2469-04	.1500-01	.1340	546.0
119	.60000	.85000	952.00	.1700-02	.1400-02	.1700-02	.5070-04	.4191-04	.5070-04	.3100-01	.2470	543.7
119	.60000	.95000	953.00	.2500-02	.2100-02	.2500-02	.7613-04	.6295-04	.7613-04	.4700-01	.5480	542.8
119	.70000	.20000	954.00	.2480-01	.2040-01	.2480-01	.7431-03	.6131-03	.7431-03	.4500	3.702	550.7

(RV1U01)

## AEDC VKF V41B-57A (OH-498) COLLATION DECK

DATE 25 AUG 76

## OH-498 (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(OTO) BTU/ R FT2SEC	H(OTO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	OOT BTU/ R FT2SEC	DTAOT DEG. R /SEC	TW DEG. R
119	70000	40000	955.00	.1130-01	.9300-02	.1130-01	.3393-03	.2801-03	.3393-03	.2070	1.701	547.8
119	70000	90000	956.00	.1900-02	.1600-02	.1900-02	.5826-04	.4819-04	.5826-04	.3600-01	.2960	541.8
119	75000	10000*00	957.00	.7260-01	.5900-01	.7260-01	.2178-02	.1794-02	.2178-02	1.309	10.74	555.2
119	75000	20000	958.00	.3200-01	.2640-01	.3200-01	.9608-03	.7926-03	.9608-03	.5820	5.168	550.8
119	75000	40000	959.00	.1440-01	.1190-01	.1440-01	.4336-03	.3581-03	.4336-03	.2640	2.259	547.5
119	75000	60000	960.00	.8400-02	.7000-02	.8400-02	.2534-03	.2093-03	.2534-03	.1550	1.324	546.0
119	75000	90000	962.00	.2400-02	.2000-02	.2400-02	.7170-04	.5930-04	.7170-04	.4400-01	.3840	541.8
119	80000	90000	963.00	.3700-02	.3100-02	.3700-02	.1118-03	.9252-04	.1118-03	.6900-01	.5390	550.4
119	90000	20000	964.00	.3980-01	.3290-01	.3980-01	.1196-02	.9667-03	.1196-02	.7250	6.439	554.6
119	50000	40000	965.00	.1080-01	.8900-02	.1080-01	.3244-03	.2681-03	.3244-03	.1980	1.768	543.9
119	95000	40000	967.00	.1530-01	.1260-01	.1530-01	.4587-03	.3792-03	.4587-03	.2810	2.087	541.3
119	95000	80000	968.00	.3300-02	.2700-02	.3300-02	.9755-04	.8069-04	.9755-04	.6000-01	.4620	

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U011)

UPPER WING

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 5 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	O PSIA	V FT/SEC	RHO SLUGS /FT3
85	7.980	1.982	20.03	.0000	180.0	431.5	.4500-01	1303.	94.80	2.002	3808.	.3974-04
86	7.980	2.006	20.00	.0000	180.0	432.1	.4500-01	1294.	94.20	2.005	3794.	.4008-04
87	7.980	2.026	20.00	.0000	180.0	431.5	.4500-01	1284.	93.50	2.002	3780.	.4032-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR R =
85	.7635-07	.3476-01	0.0175
86	.7582-07	.3475-01	.2892-01
87	.7525-07	.3468-01	.2878-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(10) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
86	.25000	.85000-01	938.00	.4700-02	.3900-02	.4700-02	.1636-03	.1355-03	.1636-03	.1020	.7580	541.3
86	.25000	.13500	939.00	.3500-02	.2900-02	.3500-02	.1228-03	.1017-03	.1228-03	.7700-01	.3410	541.0
86	.25000	.22500	940.00	.7000-02	.5800-02	.7000-02	.2420-03	.2004-03	.2420-03	.1510	.4200	542.1
86	.40000	.50000-01	941.00	.2370-01	.1960-01	.2370-01	.8249-03	.6813-03	.8249-03	.5060	4.494	550.8
86	.40000	.20000	942.00	.1240-01	.1030-01	.1240-01	.4317-03	.3566-03	.4317-03	.2650	1.966	549.3
86	.40000	.40000	943.00	.2100-02	.1800-02	.2100-02	.7393-04	.6109-04	.7393-04	.4500-01	.3750	548.7
86	.40000	.60000	944.00	.1200-02	.1000-02	.1200-02	.3996-04	.3304-04	.3996-04	.2500-01	.2500	546.8
86	.60000	.95000	945.00	.2000-02	.1700-02	.2000-02	.7034-04	.5830-04	.7034-04	.4400-01	.3940	537.6
86	.60000	.25000-01	946.00	.1191	.9660-01	.1191	.4139-02	.3357-02	.4139-02	2.301	45.13	608.3
86	.60000	.50000-01	947.00	.1176	.9630-01	.1176	.4086-02	.3377-02	.4086-02	2.394	29.13	578.3
86	.60000	.10000+00	948.00	.5180-01	.4270-01	.5180-01	.1800-02	.1484-02	.1800-02	1.092	9.668	557.3
86	.60000	.20000	949.00	.1700-01	.1410-01	.1700-01	.5923-03	.4889-03	.5923-03	.3620	2.769	552.9
86	.60000	.40000	950.00	.3600-02	.3000-02	.3600-02	.1266-03	.1046-03	.1266-03	.7800-01	.6640	549.8
86	.60000	.60000	951.00	.1400-02	.1200-02	.1400-02	.4898-04	.4049-04	.4898-04	.3000-01	.2680	547.9
86	.60000	.80000	952.00	.1400-02	.1100-02	.1400-02	.4762-04	.3943-04	.4762-04	.3000-01	.2360	541.5
86	.60000	.95000	953.00	.3200-02	.2500-02	.3200-02	.1031-03	.8543-04	.1031-03	.6400-01	.7570	539.3
86	.70000	.20000	954.00	.2540-01	.2100-01	.2540-01	.8832-03	.7284-03	.8832-03	.5380	4.412	555.3

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
86	.70000	.40000	955.00	.1150-01	.9500-02	.1150-01	.4010-03	.3310-03	.4010-03	.2450	2.013	553.0
86	.70000	.90000	956.00	.1000-02	.8000-03	.1000-02	.3311-04	.2742-04	.3311-04	.2100-01	.1710	540.8
86	.75000	.10000+00	957.00	.7090-01	.5830-01	.7090-01	.2462-02	.2027-02	.2462-02	1.486	12.16	560.7
86	.75000	.20000	958.00	.3080-01	.2540-01	.3080-01	.1069-02	.8813-03	.1069-02	.6500	5.755	556.3
86	.75000	.40000	959.00	.1430-01	.1180-01	.1430-01	.4991-03	.4111-03	.4991-03	.3040	2.596	553.0
86	.75000	.60000	960.00	.9100-02	.7500-02	.9100-02	.3149-03	.2601-03	.3149-03	.1930	1.650	550.7
86	.75000	.90000	962.00	.2000-02	.1600-02	.2000-02	.6788-04	.5621-04	.6788-04	.4200-01	.3490	541.4
86	.80000	.90000	963.00	.4400-02	.3600-02	.4400-02	.1512-03	.1251-03	.1512-03	.9400-01	.7360	542.2
86	.90000	.20000	964.00	.3690-01	.3040-01	.3690-01	.1282-02	.1057-02	.1282-02	.7790	6.903	556.2
86	.90000	.40000	965.00	.1210-01	.1000-01	.1210-01	.4192-03	.3463-03	.4192-03	.2580	2.288	549.8
86	.95000	.40000	967.00	.1230-01	.1020-01	.1230-01	.4280-03	.3537-03	.4280-03	.2640	1.953	548.3
86	.95000	.80000	968.00	.2800-02	.2300-02	.2800-02	.9786-04	.8097-04	.9786-04	.6100-01	.4660	543.9

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OH-498 (AEDC V41B-57A) ORBITER UPPER WING

(RV1001)

UPPER WING

PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = .0030 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 B /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
67	7.990	2.500	20.00	.0000	180.0	546.9	.5600-01	1304.	94.70	2.524	3810.	.5003-04
68	7.990	2.488	20.02	.0000	180.0	544.2	.5600-01	1304.	94.70	2.511	3810.	.4979-04
69	7.990	2.546	19.98	.0000	180.0	546.9	.5600-01	1288.	93.60	2.524	3787.	.5064-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
67	.7625-07	.3904-01	0.0175
68	.7623-07	.3894-01	.2578-01
69	.7532-07	.3895-01	.2584-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISTO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TM DEG. R
68	.25000	.85000-01	938.00	.5200-02	.4300-02	.5200-02	.2023-03	.1678-03	.2023-03	.1280	.9530	540.3
68	.25000	.13500	939.00	.3900-02	.3200-02	.3900-02	.1513-03	.1255-03	.1513-03	.9600-01	.4280	539.7
68	.25000	.22500	940.00	.6200-02	.5200-02	.6200-02	.2419-03	.2006-03	.2419-03	.1530	.4270	541.0
68	.40000	.50000-01	941.00	.2550-01	.2110-01	.2550-01	.9922-03	.8206-03	.9922-03	.6190	5.498	549.7
68	.40000	.20000	942.00	.1320-01	.1090-01	.1320-01	.5137-03	.4253-03	.5137-03	.3220	2.389	546.3
68	.40000	.40000	943.00	.2400-02	.2000-02	.2400-02	.9278-04	.7686-04	.9278-04	.5800-01	.4820	544.2
68	.40000	.60000	944.00	.1000-02	.8000-03	.1000-02	.3558-04	.3281-04	.3558-04	.2500-01	.2530	542.3
68	.40300	.95000	945.00	.2200-02	.1800-02	.2200-02	.8642-04	.7174-04	.8642-04	.5500-01	.4920	536.4
68	.60000	.25000-01	946.00	.1196	.9690-01	.1196	.4656-02	.3773-02	.4656-02	2.596	50.74	615.7
68	.60300	.50000-01	947.00	.1221	.1001	.1221	.4754-02	.3897-02	.4754-02	2.819	34.26	580.3
68	.60000	.10000-00	948.00	.5440-01	.4490-01	.5440-01	.2118-02	.1750-02	.2118-02	1.312	11.64	553.8
68	.60000	.20000	949.00	.1740-01	.1440-01	.1740-01	.6771-03	.5603-03	.6771-03	.4230	3.247	547.9
68	.60000	.40000	950.00	.3400-02	.2800-02	.3400-02	.1327-03	.1099-03	.1327-03	.8300-01	.7140	545.1
68	.60000	.60000	951.00	.1300-02	.1100-02	.1300-02	.5201-04	.4310-04	.5201-04	.3300-01	.2930	542.2
68	.60000	.85000	952.00	.1000-02	.8000-03	.1000-02	.3796-04	.3150-04	.3796-04	.2400-01	.1920	538.2
68	.60000	.95000	953.00	.3600-02	.3000-02	.3600-02	.1397-03	.1159-03	.1397-03	.8900-01	1.045	537.6
68	.70000	.20000	954.00	.2610-01	.2160-01	.2610-01	.1017-02	.8409-03	.1017-02	.6340	5.211	550.2



AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER UPPER WING

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RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AH) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
58	.70000	.40000	955.00	.9700-02	.8000-02	.9700-02	.3774-03	.3124-03	.3774-03	.2370	1.950	546.3
58	.70000	.90000	956.00	.9000-03	.7000-03	.9000-03	.3338-04	.2770-04	.3338-04	.2100-01	.1760	537.8
58	.75000	.10000+00	957.00	.7320-01	.6040-01	.7320-01	.2848-02	.2351-02	.2848-02	1.756	14.39	557.0
58	.75000	.20000	958.00	.3140-01	.2600-01	.3140-01	.1222-02	.1010-02	.1222-02	.7610	6.757	550.7
58	.75000	.40000	959.00	.1460-01	.1220-01	.1460-01	.5761-03	.4769-03	.5761-03	.3610	3.089	546.8
58	.75000	.60000	960.00	.9200-02	.7600-02	.9200-02	.3587-03	.2970-03	.3587-03	.2250	1.930	544.9
58	.75000	.90000	962.00	.1300-02	.1100-02	.1300-02	.5004-04	.4152-04	.5004-04	.3200-01	.2630	538.0
58	.80000	.90000	963.00	.3200-02	.2600-02	.3200-02	.1231-03	.1021-03	.1231-03	.7800-01	.6130	538.3
58	.90000	.20000	964.00	.4130-01	.3410-01	.4130-01	.1608-02	.1330-02	.1608-02	1.000	8.882	551.3
58	.90000	.40000	965.00	.1420-01	.1180-01	.1420-01	.5529-03	.4579-03	.5529-03	.3470	3.095	544.9
58	.95000	.40000	967.00	.1610-01	.1330-01	.1610-01	.6273-03	.5197-03	.6273-03	.3950	2.934	547.5
58	.95000	.80000	968.00	.3400-02	.2800-02	.3400-02	.1334-03	.1106-03	.1334-03	.8500-01	.6510	539.6

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEC V41B-57A) ORBITER UPPER WING

(RV1U01)

UPPER WING

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
46	7.990	2.948	19.97	.0000	180.0	672.9	.5900-01	1341.	97.40	3.105	3864.	.5984-04
47	7.990	2.975	19.98	.0000	180.0	674.5	.7000-01	1335.	97.00	3.112	3856.	.6025-04
48	7.990	2.969	19.97	.0000	180.0	673.7	.7000-01	1336.	97.00	3.109	3857.	.6014-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
46	.7844-07	.4351-01	0.0175
47	.7809-07	.4353-01	.2355-01
48	.7813-07	.4351-01	.2357-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(1TO) BTU/ R FT <sup>2</sup> SEC	H(TAW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTMDT DEG. R /SEC	TH DEG. R
47	.25000	.85000-01	938.00	.5400-02	.4500-02	.5400-02	.2369-03	.1970-03	.2369-03	.1560	1.161	542.4
47	.25000	.13500	939.00	.4200-02	.3500-02	.4200-02	.1812-03	.1507-03	.1812-03	.1200	.5340	541.7
47	.25000	.22500	940.00	.7600-02	.6300-02	.7600-02	.3289-03	.2735-03	.3289-03	.2170	.6040	542.5
47	.40000	.50000-01	941.00	.2750-01	.2280-01	.2750-01	.1196-02	.9915-03	.1196-02	.7760	6.885	552.8
47	.40000	.20000	942.00	.1400-01	.1160-01	.1400-01	.6080-03	.5048-03	.6080-03	.3970	2.943	548.7
47	.40000	.40000	943.00	.2300-02	.1900-02	.2300-02	.1015-03	.8432-04	.1015-03	.6700-01	.5480	546.3
47	.40000	.60000	944.00	.1100-02	.9000-03	.1100-02	.4777-04	.3970-04	.4777-04	.3100-01	.3170	545.6
47	.40000	.95000	945.00	.2400-02	.2000-02	.2400-02	.1030-03	.8967-04	.1030-03	.6800-01	.6050	543.0
47	.60000	.25000-01	946.00	.1218	.9870-01	.1218	.5303-02	.4297-02	.5303-02	3.025	58.68	631.4
47	.60000	.50000-01	947.00	.1226	.1006	.1226	.5337-02	.4381-02	.5337-02	3.263	39.46	590.4
47	.60000	.10000+00	948.00	.5580-01	.4620-01	.5580-01	.2430-02	.2013-02	.2430-02	1.565	13.84	558.1
47	.60000	.20000	949.00	.1730-01	.1430-01	.1730-01	.7520-03	.6240-03	.7520-03	.4900	3.750	550.6
47	.60000	.40000	950.00	.4500-02	.3700-02	.4500-02	.1959-03	.1627-03	.1959-03	.1280	1.096	547.7
47	.60000	.60000	951.00	.8000-03	.7000-03	.8000-03	.2626-04	.3013-04	.2626-04	.2400-01	.2120	546.3
47	.60000	.85000	952.00	.1200-02	.1000-02	.1200-02	.5061-04	.4207-04	.5061-04	.3300-01	.2650	543.9
47	.60000	.95000	953.00	.4300-02	.3600-02	.4300-02	.1884-03	.1566-03	.1884-03	.1240	1.453	544.2
47	.70000	.20000	954.00	.2720-01	.2260-01	.2720-01	.1185-02	.9826-03	.1185-02	.7680	6.301	554.3

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OH-498 (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/8	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TW DEG. R
47	.70000	.40000	955.00	.1120-01	.9300-02	.1120-01	.4895-03	.4064-03	.4895-03	.3190	2.629	549.2
47	.70000	.90000	956.00	.2000-02	.1600-02	.2000-02	.8504-04	.7070-04	.8504-04	.5600-01	.4620	543.4
47	.75000	.10000+00	957.00	.7230-01	.5980-01	.7230-01	.3147-02	.2605-02	.3147-02	2.020	16.53	560.1
47	.75000	.20000	958.00	.3100-01	.2570-01	.3100-01	.1349-02	.1118-02	.1349-02	.8740	7.744	554.3
47	.75000	.40000	959.00	.1550-01	.1290-01	.1550-01	.6753-03	.5604-03	.6753-03	.4400	3.757	550.5
47	.75000	.60000	960.00	.9800-02	.8100-02	.9800-02	.4266-03	.3542-03	.4266-03	.2790	2.383	543.6
47	.75000	.90000	962.00	.2400-02	.2000-02	.2400-02	.1054-03	.8759-04	.1054-03	.6900-01	.5720	543.7
47	.80000	.20000	963.00	.3600-02	.3000-02	.3600-02	.1576-03	.1310-03	.1576-03	.1040	.8110	543.7
47	.90000	.40000	964.00	.3690-01	.3050-01	.3690-01	.1604-02	.1329-02	.1604-02	1.035	9.166	556.6
47	.90000	.40000	965.00	.1640-01	.1360-01	.1640-01	.7150-03	.5936-03	.7150-03	.4670	4.150	549.0
47	.95000	.40000	967.00	.1760-01	.1460-01	.1760-01	.7675-03	.6373-03	.7675-03	.5010	3.715	548.6
47	.95000	.80000	968.00	.4500-02	.3700-02	.4500-02	.1941-03	.1613-03	.1941-03	.1280	.9800	544.7

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(RV1U01)

OH-498 (AEDC V41B-57A) OREITER UPPER WING

UPPER WING

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
29	8.000	3.262	19.97	.0000	180.0	762.4	.7800-01	1359.	98.50	3.498	3891.	.6651-04
29	8.000	3.309	20.00	.0000	180.0	762.1	.7800-01	1346.	97.60	3.497	3872.	.6713-04
30	8.000	3.346	20.00	.0000	180.0	759.3	.7800-01	1333.	96.60	3.484	3853.	.6755-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	ST FR R =
28	.7931-07	.4629-01	0.0175
29	.7854-07	.4621-01	.2245-01
30	.7777-07	.4604-01	.2224-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C IN	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AM) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTMOT DEG. R /SEC	TM DEG. R
29	.25000	.13500	939.00	.4400-02	.3600-02	.4400-02	.2011-03	.1674-03	.2011-03	.1350	.6010	541.6
29	.25000	.22500	940.00	.6900-02	.5700-02	.6900-02	.3192-03	.2657-03	.3192-03	.2130	.5940	543.9
29	.40000	.50000-01	941.00	.2970-01	.2460-01	.2970-01	.1372-02	.1137-02	.1372-02	.8950	7.920	559.0
29	.40000	.20000	942.00	.1770-01	.1460-01	.1770-01	.8156-03	.5767-03	.8156-03	.5350	3.953	555.3
29	.40000	.40000	943.00	.2300-02	.1900-02	.2300-02	.1082-03	.8985-04	.1082-03	.7100-01	.5860	552.7
29	.40000	.60000	944.00	.1500-02	.1300-02	.1500-02	.7004-04	.5816-04	.7004-04	.4600-01	.4660	552.3
29	.40000	.95000	945.00	.3600-02	.3000-02	.3600-02	.1648-03	.1373-03	.1648-03	.1090	.9730	547.7
29	.60000	.25000-01	946.00	.1189	.9610-01	.1189	.5495-02	.4439-02	.5495-02	3.108	59.86	646.1
29	.60000	.50000-01	947.00	.1227	.1006	.1227	.5672-02	.4647-02	.5672-02	3.464	41.67	600.9
29	.60000	.10000+00	948.00	.5490-01	.4550-01	.5490-01	.2539-02	.2103-02	.2539-02	1.648	14.55	562.4
29	.60000	.20000	949.00	.1830-01	.1520-01	.1830-01	.8440-03	.7004-03	.8440-03	.5540	4.235	554.9
29	.60000	.40000	950.00	.5200-02	.4300-02	.5200-02	.2384-03	.1980-03	.2384-03	.1570	1.341	552.3
29	.60000	.60000	951.00	.1400-02	.1200-02	.1400-02	.6479-04	.5383-04	.6479-04	.4300-01	.3810	550.3
29	.60000	.85000	952.00	.1700-02	.1400-02	.1700-02	.7728-04	.6426-04	.7728-04	.5100-01	.4080	547.2
29	.60000	.95000	953.00	.4700-02	.3900-02	.4700-02	.2168-03	.1803-03	.2168-03	.1440	1.688	546.9
29	.70000	.20000	954.00	.2830-01	.2340-01	.2830-01	.1306-02	.1083-02	.1306-02	.8540	6.994	558.1
29	.70000	.40000	955.00	.1030-01	.6600-02	.1030-01	.4759-03	.3952-03	.4759-03	.3130	2.575	553.0

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## AEDC VKF V41B-57A (OH-498) COLLATION DECK

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(RV1U011)

## OH-498 (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/8	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(14N) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TA DEG. R
29	.70000	.90000	956.00	.1600-02	.1400-02	.1600-C2	.7613-04	.6335-04	.7613-04	.5100-01	.4190	544.4
29	.75000	.10000+00	957.00	.7310-01	.6050-01	.7310-C1	.3377-02	.2795-02	.3377-02	2.184	17.84	554.8
29	.75000	.20000	958.00	.3440-01	.2850-01	.3440-C1	.1589-02	.1318-02	.1589-02	1.040	9.211	557.0
29	.75000	.40000	959.00	.1680-01	.1400-01	.1680-C1	.7779-03	.6460-03	.7779-03	.5130	4.377	552.2
29	.75000	.60000	960.00	.1180-01	.9800-02	.1180-C1	.5460-03	.4535-03	.5460-03	.3600	3.077	551.5
29	.75000	.90000	962.00	.2000-02	.1700-02	.2000-C2	.9336-04	.7770-04	.9336-04	.6200-01	.5140	543.9
29	.80000	.90000	963.00	.4400-02	.3700-02	.4400-C2	.2044-03	.1701-03	.2044-03	.1370	1.069	542.8
29	.90000	.20000	964.00	.6010-01	.4990-01	.6010-C1	.2778-02	.2304-02	.2778-02	1.820	16.12	556.4
29	.90000	.40000	965.00	.1660-01	.1380-01	.1660-C1	.7650-03	.6360-03	.7650-03	.5080	4.517	547.8
29	.95000	.40000	967.00	.1960-01	.1630-01	.1960-C1	.9044-03	.7519-03	.9044-03	.6000	4.448	548.0
29	.95000	.80000	968.00	.4200-02	.3500-02	.4200-C2	.1962-03	.1634-03	.1962-03	.1310	1.010	542.2

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AEDC VKF V41B-57A (04-498) COLLATION DECK

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04-498 (AEDC V41B-57A) ORBITER UPPER WING

(RV1U01)

## UPPER WING

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = .0000 SPDRBK = .0000  
 BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
1	8.000	3.780	19.99	.0000	180.0	863.4	.8800-01	1339.	97.00	3.962	3861.	.7647-04
2	8.000	3.783	19.99	.0000	180.0	861.7	.8800-01	1337.	96.90	3.954	3858.	.7645-04
3	8.000	3.766	19.99	.0000	180.0	864.5	.8900-01	1343.	97.40	3.957	3868.	.7632-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R	ST FR R =
1	.7812-07		FT2SEC	0.0175
2	.7798-07			.2091-01
3	.7838-07			.2094-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	HISTO) BTU/ R FT2SEC	H(ITO) BTU/ R FT2SEC	H(ITAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
2	.25000	.85000-01	938.00	.6400-02	.5300-02	.6400-02	.3121-03	.2600-03	.3121-03	.2080	1.553	535.8
2	.25000	.13500	939.00	.4400-02	.3700-02	.4400-02	.2153-03	.1754-03	.2153-03	.1440	.6430	535.7
2	.25000	.22500	940.00	.7000-02	.5800-02	.7000-02	.3432-03	.2858-03	.3432-03	.2290	.6390	536.7
2	.40000	.50000-01	941.00	.2760-01	.2290-01	.2760-01	.1353-02	.1122-02	.1353-02	.8810	7.825	551.4
2	.40000	.20000	942.00	.1860-01	.1540-01	.1860-01	.9123-03	.7577-03	.9123-03	.5980	4.429	548.0
2	.40000	.40000	943.00	.2700-02	.2300-02	.2700-02	.1330-03	.1106-03	.1330-03	.8800-01	.7230	544.5
2	.40000	.60000	944.00	.1500-02	.1200-02	.1500-02	.7306-04	.6073-04	.7306-04	.4800-01	.4870	544.9
2	.40000	.95000	945.00	.3600-02	.3000-02	.3600-02	.1780-03	.1480-03	.1780-03	.1170	1.047	542.9
2	.60000	.25000-01	946.00	.1162	.9370-01	.1162	.5704-02	.4596-02	.5704-02	3.162	60.22	648.6
2	.60000	.50000-01	947.00	.1224	.1002	.1224	.6008-02	.4916-02	.6008-02	3.615	43.49	601.2
2	.60000	.10000+00	948.00	.5790-01	.4800-01	.5790-01	.2841-02	.2353-02	.2841-02	1.831	16.20	558.4
2	.60000	.20000	949.00	.2000-01	.1660-01	.2000-01	.9804-03	.8137-03	.9804-03	.6390	4.896	550.7
2	.60000	.40000	950.00	.5200-02	.4300-02	.5200-02	.2540-03	.2110-03	.2540-03	.1670	1.425	547.0
2	.60000	.60000	951.00	.1900-02	.1600-02	.1900-02	.9189-04	.7635-04	.9189-04	.6000-01	.5370	546.2
2	.60000	.85000	952.00	.1100-02	.9000-03	.1100-02	.5598-04	.4654-04	.5598-04	.3700-01	.2940	543.9
2	.60000	.95000	953.00	.5500-02	.4600-02	.5500-02	.2710-03	.2253-03	.2710-03	.1780	2.091	544.6
2	.70000	.20000	954.00	.3000-01	.2490-01	.3000-01	.1472-02	.1220-02	.1472-02	.9520	7.811	556.0

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OH-498 (AEDC V41B-57A) ORBITER UPPER WING

(RV1U01)

RUN NUMBER	2Y/8	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9T0) BTU/ R FT2SEC	H(1T0) BTU/ R FT2SEC	H(1TAN) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
2	.70000	.40000	955.00	.1170-01	.9700-02	.1170-01	.5719-03	.4747-03	.5719-03	.3730	3.071	550.1
2	.70000	.90000	956.00	.9000-03	.7000-03	.9000-03	.4273-04	.7552-04	.4273-04	.2800-01	.2330	543.6
2	.75000	.10000+00	957.00	.8120-01	.6720-01	.8120-01	.3986-02	.3296-02	.3986-02	2.545	20.78	564.5
2	.75000	.20000	958.00	.3540-01	.2930-01	.3540-01	.1737-02	.1439-02	.1737-02	1.122	9.933	557.0
2	.75000	.40000	959.00	.1620-01	.1340-01	.1620-01	.7953-03	.6599-03	.7953-03	.5180	4.419	551.9
2	.75000	.60000	960.00	.1240-01	.1030-01	.1240-01	.6105-03	.5066-03	.6105-03	.3980	3.399	550.9
2	.75000	.80000	962.00	.2500-02	.2100-02	.2500-02	.1217-03	.1012-03	.1217-03	.8000-01	.6620	543.9
2	.80000	.90000	963.00	.3800-02	.3200-02	.3800-02	.1879-03	.1562-03	.1879-03	.1240	.9690	543.2
2	.90000	.20000	964.00	.5510-01	.4560-01	.5510-01	.2706-02	.2238-02	.2706-02	1.730	15.27	563.5
2	.90000	.40000	965.00	.1980-01	.1650-01	.1980-01	.9737-03	.8080-03	.9737-03	.6350	5.638	550.9
2	.95000	.40000	967.00	.2160-01	.1790-01	.2160-01	.1059-02	.8790-03	.1059-02	.6920	5.123	549.6
2	.95000	.80000	968.00	.3000-02	.2500-02	.3000-02	.1474-03	.1225-03	.1474-03	.9700-01	.7470	543.5

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AEDC VXF V41B-57A (OH-498) COLLATION DECK

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UPPER WING

OH-498 (AEDC V41B-57A) ORBITER UPPER WING

(RV1U02)

## PARAMETRIC DATA

ALPHA = 25.00 BETA = .0000 ELEVTR = .0000 SPDRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
169	7.900	.5461	25.03	.0000	180.0	109.9	.1200-01	1259.	93.40	.5330	3740.	.1097-04
170	7.900	.5426	25.03	.0000	180.0	109.8	.1200-01	1263.	93.70	.5330	3747.	.1092-04
171	7.900	.5441	25.04	.0000	180.0	110.8	.1200-01	1269.	94.10	.5360	3755.	.1098-04

RUN NUMBER	MJ	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
169	.7517-07	.1784-01	.1784-01	0.0175
170	.7544-07	.1784-01	.1784-01	.5485-01
171	.7576-07	.1793-01	.1793-01	.5499-01
				.5488-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19T01 BTU/ R FT2SEC	H1010 BTU/ R FT2SEC	H1010 BTU/ R FT2SEC	H1010 BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	OTADOT DEG. R /SEC	TW DEG. R
170	.25000	.85000-01	938.00	.4300-02	.3500-02	.4300-02	.7653-04	.6321-04	.7653-04	.4600-01	.3420	537.2	
170	.25000	.13500	939.00	.2400-02	.2000-02	.2400-02	.4229-04	.3494-04	.4229-04	.2500-01	.1130	537.0	
170	.25000	.22500	940.00	.5300-02	.4400-02	.5300-02	.9504-04	.7850-04	.9504-04	.5700-01	.1590	537.3	
170	.40000	.50000-01	941.00	.1870-01	.1540-01	.1870-01	.3332-03	.2750-03	.3332-03	.1990	1.775	540.4	
170	.40000	.20000	942.00	.6800-02	.5600-02	.6800-02	.1220-03	.1007-03	.1220-03	.7300-01	.5430	539.1	
170	.40000	.40000	943.00	.1400-02	.1200-02	.1400-02	.2513-04	.2075-04	.2513-04	.1500-01	.1250	538.4	
170	.40000	.60000	944.00	.6000-03	.5000-03	.6000-03	.1003-04	.8234-05	.1003-04	.6000-02	.6100-01	533.9	
170	.40000	.95000	945.00	.1800-02	.1500-02	.1800-02	.3259-04	.2697-04	.3259-04	.2000-01	.1770	531.4	
170	.60000	.25000-01	946.00	.1136	.9310-01	.1136	.2026-02	.1662-02	.2026-02	1.166	23.41	561.4	
170	.60000	.50000-01	947.00	.1145	.9410-01	.1145	.2042-02	.1679-02	.2042-02	1.193	14.70	553.0	
170	.60000	.10000-00	948.00	.6010-01	.4950-01	.6010-01	.1072-02	.8837-03	.1072-02	.6360	5.674	543.1	
170	.60000	.20000	949.00	.1610-01	.1330-01	.1610-01	.2878-03	.2376-03	.2878-03	.1720	1.325	539.2	
170	.60000	.40000	950.00	.5300-02	.4400-02	.5300-02	.9510-04	.7858-04	.9510-04	.5700-01	.4927	536.0	
170	.60000	.60000	951.00	.1200-02	.1000-02	.1200-02	.2140-04	.1769-04	.2140-04	.1300-01	.1150	534.6	
170	.60000	.85000	952.00	.5000-03	.4000-03	.5000-03	.9289-05	.7686-05	.9289-05	.6000-02	.4500-01	531.0	
170	.60000	.95000	953.00	.2800-02	.2300-02	.2800-02	.4951-04	.4097-04	.4951-04	.3000-01	.3550	530.3	
170	.70000	.20000	954.00	.2140-01	.1760-01	.2140-01	.3811-03	.3147-03	.3811-03	.2280	1.889	538.0	



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AEDC VKF V41B-57A (OH-45B) COLLATION DECK

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(RV1U02)

OH-45B (AEDC V41B-57A: ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
170	.70000	.40000	955.00	.8300-02	.6900-02	.0310-02	.1487-03	.1229-03	.1487-03	.8500-01	.7410	535.8
170	.70000	.90000	956.00	.3000-03	.3200-03	.3010-03	.6164-05	.5103-05	.6164-05	.4000-02	.3100-01	529.3
170	.75000	.10000+00	957.00	.6660-01	.5500-01	.6660-01	.1189-02	.9818-03	.1189-02	.7120	5.887	538.5
170	.75000	.20000	958.00	.2810-01	.2320-01	.2810-01	.5018-03	.4145-03	.5018-03	.3010	2.694	536.8
170	.75000	.40000	959.00	.1200-01	.1000-01	.1200-01	.2149-03	.1776-03	.2149-03	.1290	1.115	534.4
170	.75000	.60000	960.00	.8000-02	.6500-02	.8000-02	.1432-03	.1184-03	.1432-03	.8500-01	.7450	533.2
170	.75000	.90000	962.00	.1300-02	.1100-02	.1300-02	.2395-04	.1974-04	.2395-04	.1500-01	.1210	528.8
170	.80000	.90000	963.00	.4000-02	.3300-02	.4000-02	.7190-04	.5955-04	.7190-04	.4400-01	.3450	527.8
170	.90000	.20000	964.00	.2830-01	.2340-01	.2830-01	.5052-03	.4178-03	.5052-03	.3050	2.731	533.6
170	.90000	.40000	965.00	.8990-02	.7400-02	.8990-02	.1596-03	.1313-03	.1596-03	.9600-01	.8620	531.0
170	.95000	.40000	967.00	.1260-01	.1050-01	.1260-01	.2254-03	.1665-03	.2254-03	.1370	1.022	530.3
170	.95000	.80000	968.00	.1700-02	.1400-02	.1700-02	.3003-04	.2427-04	.3003-04	.1800-01	.1420	527.6

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U02)

## UPPER WING

## PARAMETRIC DATA

ALPHA = 25.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	P0 PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
142	7.940	1.027	25.05	.0000	180.0	210.9	.2300-01	1264.	92.30	1.001	3750.	.2048-04
143	7.940	1.025	25.04	.0000	180.0	211.2	.2300-01	1267.	93.10	1.002	3754.	.2047-04
144	7.940	1.019	25.04	.0001	180.0	210.9	.2300-01	1271.	93.40	1.001	3760.	.2037-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
142	.7480-07	.2445-01	0.0175
143	.7495-07	.2448-01	.4018-01
144	.7520-07	.2447-01	.4029-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TH DEG. R
143	.25000	.85000-01	938.00	.4100-02	.3400-02	.4100-02	.1007-03	.8313-04	.1007-03	.6000-01	.4490	540.8
143	.25000	.13500	939.00	.2000-02	.1700-02	.2000-02	.4998-04	.4126-04	.4998-04	.3000-01	.1340	540.5
143	.25000	.22500	940.00	.5200-02	.4300-02	.5200-02	.1263-03	.1043-03	.1263-03	.7600-01	.2110	541.2
143	.40000	.50000-01	941.00	.1830-01	.1500-01	.1630-01	.4469-03	.3684-03	.4469-03	.2660	2.364	546.0
143	.40000	.20000	942.00	.7500-02	.6200-02	.7500-02	.1833-03	.1511-03	.1833-03	.1090	.8100	545.0
143	.40000	.40000	943.00	.1500-02	.1200-02	.1500-02	.3586-04	.2958-04	.3586-04	.2100-01	.1760	543.9
143	.40000	.60000	944.00	.9000-03	.7000-03	.9000-03	.2103-04	.1735-04	.2103-04	.1300-01	.1270	542.7
143	.40000	.95000	945.00	.2600-02	.2200-02	.2600-02	.6441-04	.5319-04	.6441-04	.3900-01	.3460	539.5
143	.60000	.25000-01	946.00	.1061	.8660-01	.1061	.2596-02	.2077-02	.2596-02	1.465	29.21	575.8
143	.60000	.50000-01	947.00	.1035	.8490-01	.1035	.2533-02	.2077-02	.2533-02	1.465	17.96	551.9
143	.60000	.10000-00	948.00	.5370-01	.4420-01	.5370-01	.1313-02	.1081-02	.1313-02	.2240	6.868	546.4
143	.60000	.20000	949.00	.1540-01	.1270-01	.1540-01	.3777-03	.3113-03	.3777-03	.4600-01	1.721	543.9
143	.60000	.40000	950.00	.3200-02	.2600-02	.3200-02	.7751-04	.6393-04	.7751-04	.7000-02	.3960	542.6
143	.60000	.60000	951.00	.5000-03	.4000-03	.5000-03	.1198-04	.9886-05	.1198-04	.1200-01	.6400-01	540.2
143	.60000	.85000	952.00	.8000-03	.7000-03	.8000-03	.2016-04	.1665-04	.2016-04	.9600-01	.7060	539.9
143	.60000	.95000	953.00	.4100-02	.3400-02	.4100-02	.1001-03	.8265-04	.1001-03	.6000-01	.7060	539.9
143	.70000	.20000	954.00	.2270-01	.1870-01	.2270-01	.5554-03	.4577-03	.5554-03	.3300	2.715	546.8

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U02)

RUN NUMBER	2Y/8	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	HITAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
143	.70000	.40000	955.00	.9700-02	.8000-02	.9700-02	.2368-03	.1952-03	.1952-03	.2368-03	.1410	1.163	544.7
143	.70000	.90000	956.00	.1700-02	.1400-02	.1700-02	.4146-04	.3424-04	.3424-04	.4146-04	.2500-01	.2060	539.3
143	.75000	.10000+00	957.00	.7080-01	.5830-01	.7080-01	.1733-02	.1427-02	.1427-02	.1733-02	1.022	8.401	550.8
143	.75000	.20000	958.00	.3390-01	.2800-01	.3390-01	.8308-03	.6844-03	.6844-03	.8308-03	.4920	4.376	548.0
143	.75000	.40000	959.00	.1330-01	.1100-01	.1330-01	.3252-03	.2681-03	.2681-03	.3252-03	.1940	1.657	545.2
143	.75000	.60000	960.00	.8500-02	.7000-02	.8500-02	.2072-03	.1709-03	.1709-03	.2072-03	.1240	1.059	543.6
143	.75000	.90000	962.00	.2300-02	.1900-02	.2300-02	.5527-04	.4565-04	.4565-04	.5527-04	.3300-01	.2750	539.4
143	.80000	.90000	963.00	.3200-02	.2700-02	.3200-02	.7918-04	.6539-04	.6539-04	.7918-04	.4800-01	.3730	539.2
143	.90000	.20000	964.00	.3800-01	.3130-01	.3800-01	.9290-03	.7656-03	.7656-03	.9290-03	.5510	4.907	546.7
143	.90000	.40000	965.00	.1160-01	.9600-02	.1160-01	.2950-03	.2351-03	.2351-03	.2950-03	.1700	1.517	543.0
143	.95000	.40000	967.00	.1590-01	.1310-01	.1590-01	.3894-03	.3213-03	.3213-03	.3894-03	.2330	1.729	542.8
143	.95000	.80000	968.00	.3000-02	.2500-02	.3000-02	.7362-04	.6079-04	.6079-04	.7362-04	.4400-01	.3400	539.7

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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UPPER WING

OH-498 (AEDC V41B-57A) ORBITER UPPER WING

(RV1U02)

## PARAMETRIC DATA

ALPHA = 25.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
121	7.970	1.507	25.03	.0000	180.0	319.1	.3300-01	1282.	93.50	1.489	3777.	.3004-04
122	7.970	1.511	25.04	.0000	180.0	320.3	.3400-01	1283.	93.60	1.495	3778.	.3013-04
123	7.970	1.499	25.07	.0000	180.0	318.3	.3300-01	1284.	93.70	1.485	3781.	.2991-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R	ST FR R =
121	.7531-07	.2990-01	.2990-01	0.0175
122	.7536-07	.2996-01	.3316-01	.3321-01
123	.7545-07	.2987-01	.3329-01	.3329-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(970) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AM) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TM DEG. R
122	.25000	.85000-01	938.00	.4000-02	.3300-02	.4000-02	.1203-03	.9945-04	.1203-03	.7400-01	.5470	543.1
122	.25000	.13500	939.00	.1900-02	.1670-02	.1900-02	.5810-04	.4803-04	.5810-04	.3600-01	.1580	542.9
122	.25000	.22500	940.00	.5200-02	.4300-02	.5200-02	.1553-03	.1283-03	.1553-03	.9500-01	.2650	542.8
122	.40000	.50000-01	941.00	.1900-01	.1570-01	.1900-01	.5707-03	.4708-03	.5707-03	.3450	3.066	549.9
122	.40000	.20000	942.00	.8200-02	.6800-02	.8200-02	.2455-03	.2026-03	.2455-03	.1490	1.102	548.7
122	.40000	.40000	943.00	.1700-02	.1430-02	.1700-02	.5061-04	.4178-04	.5061-04	.3100-01	.2530	548.0
122	.40000	.60000	944.00	.9000-03	.8000-03	.9000-03	.2845-04	.2350-04	.2845-04	.1700-01	.1750	546.5
122	.40000	.95000	945.00	.2100-02	.1800-02	.2100-02	.6438-04	.5324-04	.6438-04	.3900-01	.3520	541.7
122	.60000	.25000-01	946.00	.1053	.8670-01	.1063	.3184-02	.2599-02	.3184-02	1.812	35.95	585.5
122	.60000	.50000-01	947.00	.1028	.8430-01	.1028	.3079-02	.2526-02	.3079-02	1.803	22.03	569.2
122	.60000	.10000+00	948.00	.5110-01	.4210-01	.5110-01	.1530-02	.1260-02	.1530-02	.9160	8.116	555.7
122	.60000	.20000	949.00	.1490-01	.1230-01	.1490-01	.4464-03	.3682-03	.4464-03	.2700	2.064	550.7
122	.60000	.40000	950.00	.4700-02	.3500-02	.4700-02	.1398-03	.1154-03	.1398-03	.8500-01	.7250	548.1
122	.60000	.60000	951.00	.1300-02	.1100-02	.1300-02	.4016-04	.3316-04	.4016-04	.2400-01	.2170	546.7
122	.60000	.85000	952.00	.9300-03	.7000-03	.9300-03	.2709-04	.2239-04	.2709-04	.1700-01	.1320	542.9
122	.60000	.95000	953.00	.4700-02	.3500-02	.4700-02	.1412-03	.1167-03	.1412-03	.8600-01	1.014	542.7
122	.70000	.20000	954.00	.2260-01	.1860-01	.2260-01	.6756-03	.5570-03	.6756-03	.4070	3.347	551.8

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AEDC VKF V41B-57A (OH-498) COLLATION CHECK  
OH-498 (AEDC V41B-57A) OPB.TER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	11/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TW DEG. R
122	.70000	.40000	955.00	.1120-01	.9300-02	.1120-01	.3361-03	.2773-03	.3361-03	.2030	1.673	549.6
122	.70000	.90000	956.00	.1200-02	.1000-02	.1200-02	.3470-04	.2669-04	.3470-04	.2100-01	.1760	542.0
122	.75000	.10000+00	957.00	.7410-01	.6100-01	.7410-01	.2219-02	.1828-02	.2219-02	1.328	10.89	556.2
122	.75000	.20000	958.00	.3660-01	.3010-01	.3660-01	.1036-02	.9029-03	.1036-02	.6590	5.843	553.2
122	.75000	.40000	959.00	.1490-01	.1230-01	.1490-01	.4449-03	.3671-03	.4449-03	.2690	2.301	549.4
122	.75000	.60000	960.00	.9800-02	.8100-02	.9800-02	.2934-03	.2422-03	.2934-03	.1780	1.522	548.0
122	.75000	.90000	962.00	.1500-02	.1300-02	.1500-02	.4634-04	.3832-04	.4634-04	.2800-01	.2340	541.9
122	.80000	.90000	963.00	.3400-02	.2800-02	.3400-02	.1004-03	.8302-04	.1004-03	.6200-01	.4810	541.8
122	.90000	.20000	964.00	.3940-01	.3250-01	.3940-01	.1181-02	.9737-03	.1181-02	.7120	6.322	551.5
122	.90000	.40000	965.00	.1210-01	.1000-01	.1210-01	.3639-03	.3005-03	.3639-03	.2210	1.971	546.1
122	.95000	.40000	967.00	.1660-01	.1380-01	.1660-01	.4988-03	.4120-03	.4988-03	.3040	2.253	545.8
122	.95000	.80000	968.00	.2700-02	.2200-02	.2700-02	.8035-04	.6643-04	.8035-04	.4900-01	.3780	542.2

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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## UPPER WING

OH-498 (AEDC V41B-57A) ORBITER UPPER WING

(RV1U02)

## PARAMETRIC DATA

ALPHA = 25.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
88	7.980	2.028	25.04	.0000	180.0	429.7	.4500-01	1279.	93.10	1.994	3774.	.4030-04
89	7.980	2.024	25.08	.0000	180.0	432.2	.4500-01	1286.	93.60	2.006	3783.	.4032-04
90	7.980	2.012	25.06	.0000	180.0	431.7	.4500-01	1290.	93.90	2.003	3789.	.4015-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
88	.7499-07	.3458-01	0.0175
89	.7537-07	.3471-01	.2867-01
90	.7561-07	.3471-01	.2874-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ETA/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(1TO) BTU/ R FT <sup>2</sup> SEC	H(TAH) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTMOT DEG. R /SEC	TH DEG. R
89	.25000	.85000-01	938.00	.3900-02	.3200-02	.3900-02	.1354-03	.1122-03	.1354-03	.8400-01	.6280	535.5
89	.25000	.13500	939.00	.2300-02	.1900-02	.2300-02	.7948-04	.6586-04	.7948-04	.4900-01	.2210	535.1
89	.25000	.22500	940.00	.3600-02	.3000-02	.3600-02	.1236-03	.1024-03	.1236-03	.7700-01	.2150	535.4
89	.40000	.50000-01	941.00	.2030-01	.1680-01	.2030-01	.7056-03	.5838-03	.7056-03	.4350	3.878	541.5
89	.40000	.20000	942.00	.1000-01	.8300-02	.1000-01	.3467-03	.2870-03	.3467-03	.214C	1.595	539.4
89	.40000	.40000	943.00	.2200-02	.1800-02	.2200-02	.7715-04	.6387-04	.7715-04	.4800-01	.3950	538.6
89	.40000	.60000	944.00	.5000-03	.4000-03	.5000-03	.1743-04	.1444-04	.1743-04	.1100-01	.1100	536.0
89	.40000	.95000	945.00	.2900-02	.2400-02	.2900-02	.1004-03	.8337-04	.1004-03	.6300-01	.5680	527.3
89	.60000	.25000-01	946.00	.1005	.8210-01	.1005	.3488-02	.2851-02	.3488-02	2.007	39.87	582.1
89	.60000	.50000-01	947.00	.1003	.8250-01	.1003	.3482-02	.2863-02	.3482-02	2.071	25.39	552.7
89	.60000	.10000+00	948.00	.5090-01	.4210-01	.5090-01	.1769-02	.1461-02	.1769-02	1.080	9.606	547.0
89	.60000	.20000	949.00	.1310-01	.1050-01	.1310-01	.4556-03	.3769-03	.4556-03	.2810	2.160	541.1
89	.60000	.40000	950.00	.3000-02	.2500-02	.3000-02	.1048-03	.8677-04	.1048-03	.6500-01	.5560	539.7
89	.60000	.FJ000	951.00	.1700-02	.1400-02	.1700-02	.6021-04	.4988-04	.6021-04	.3700-01	.3340	536.7
89	.60000	.85000	952.00	.1200-02	.1000-02	.1200-02	.4121-04	.3420-04	.4121-04	.2600-01	.2070	530.3
89	.60000	.95000	953.00	.5200-02	.4300-02	.5200-02	.1799-03	.1494-03	.1799-03	.1130	1.336	528.8
89	.70000	.20000	954.00	.2290-01	.1900-01	.2290-01	.7963-03	.6584-03	.7963-03	.4890	4.038	543.1

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

DATE 25 AUG 75

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/R FT2SEC	H(10) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG/R /SEC	TW DEG. R
89	.70000	.40000	955.00	.1140-01	.9500-02	.1140-01	.3974-03	.3288-03	.3974-03	.2450	2.027	540.5
89	.70000	.90000	956.00	.1500-02	.1200-02	.1500-02	.5097-04	.231-04	.5097-04	.3200-01	.2660	528.2
89	.75000	.10000+00	957.00	.7720-01	.6370-01	.7720-01	.2681-02	.2213-02	.2681-02	1.630	13.41	549.3
89	.75000	.20000	958.00	.4100-01	.3390-01	.4100-01	.1423-02	.1176-02	.1423-02	.8700	7.747	546.0
89	.75000	.40000	959.00	.1670-01	.1360-01	.1670-01	.5798-03	.4796-03	.5798-03	.3570	3.063	541.5
89	.75000	.60000	960.00	.1240-01	.1030-01	.1240-01	.4315-03	.3571-03	.4315-03	.2670	2.290	539.5
89	.75000	.90000	962.00	.2000-02	.1700-02	.2000-02	.7043-04	.5846-04	.7043-04	.4400-01	.3680	529.4
89	.80000	.90000	963.00	.3100-02	.2600-02	.3100-02	.1065-03	.9007-04	.1065-03	.6800-01	.5360	530.2
89	.90000	.20000	964.00	.4460-01	.3690-01	.4460-01	.1549-02	.1280-02	.1549-02	.9490	8.455	544.5
89	.90000	.40000	965.00	.1420-01	.1180-01	.1420-01	.4927-03	.4079-03	.4927-03	.3050	2.725	538.4
89	.95000	.40000	967.00	.1510-01	.1250-01	.1510-01	.5232-03	.4334-03	.5232-03	.3250	2.419	536.9
89	.95000	.80000	968.00	.3000-02	.2500-02	.3000-02	.1030-03	.8543-04	.1030-03	.6400-01	.4980	532.0

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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UPPER WING

OH-498 (AEDC V41B-57A) ORBITER UPPER WING

(RV1U02)

## PARAMETRIC DATA

ALPHA = 25.00 BETA = .0000 ELEVTR = .0000 SPDRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
70	7.990	2.527	25.08	.0000	180.0	546.9	.5600-01	1294.	94.00	2.524	3796.	.5040-04
71	7.990	2.486	25.01	.0000	180.0	547.1	.5600-01	1309.	95.10	2.525	3817.	.4985-04
72	7.990	2.486	25.03	.0000	180.0	548.3	.5700-01	1311.	95.20	2.530	3820.	.4988-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
70	.7569-07		3899-01	0.0175
71	.7655-07		3907-01	.2584-01
72	.7666-07		3912-01	.2583-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(1TO) BTU/ R FT <sup>2</sup> SEC	H(1TAH) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTAOT DEG. R /SEC	TH DEG. R
71	.25000	.85000-01	938.00	.4100-02	.3400-02	.4100-02	.1608-03	.1335-03	.1608-03	.1030	.7640	539.7
71	.25000	.13500	939.00	.2200-02	.1800-02	.2200-02	.8553-04	.7099-04	.8553-04	.5500-01	.2440	539.0
71	.25000	.22500	940.00	.4000-02	.3300-02	.4000-02	.1570-03	.1303-03	.1570-03	.1000+00	.2800	539.6
71	.40000	.50000-01	941.00	.2170-01	.1800-01	.2170-01	.8488-03	.7029-03	.8488-03	.5350	4.760	547.7
71	.40000	.20000	942.00	.1280-01	.1060-01	.1280-01	.4982-03	.4129-03	.4982-03	.3150	2.342	544.9
71	.40000	.40000	943.00	.3300-02	.2800-02	.3300-02	.1299-03	.1077-03	.1299-03	.8200-01	.6800	543.5
71	.40000	.60000	944.00	.5000-03	.4000-03	.5000-03	.1829-04	.1517-04	.1829-04	.1200-01	.1180	541.2
71	.60000	.95000	945.00	.4100-02	.3400-02	.4100-02	.1607-03	.1335-03	.1607-03	.1030	.9230	536.3
71	.60000	.25000-01	946.00	.9870-01	.8060-01	.9870-01	.3657-02	.3149-02	.3657-02	2.245	44.31	595.9
71	.60000	.50000-01	947.00	.1013	.8330-01	.1013	.3959-02	.3255-02	.3959-02	2.397	29.25	572.5
71	.60000	.10000+00	948.00	.5000-01	.4130-01	.5000-01	.1952-02	.1614-02	.1952-02	1.219	10.81	553.7
71	.60000	.20000	949.00	.1370-01	.1140-01	.1370-01	.5371-03	.4449-03	.5371-03	.3390	2.603	546.6
71	.60000	.40000	950.00	.3300-02	.2800-02	.3300-02	.1304-03	.1080-03	.1304-03	.8200-01	.7060	545.3
71	.60000	.60000	951.00	.1400-02	.1100-02	.1400-02	.5392-04	.4471-04	.5392-04	.3400-01	.3060	542.6
71	.60000	.85000	952.00	.1700-02	.1400-02	.1700-02	.6494-04	.5391-04	.6494-04	.4200-01	.3320	538.3
71	.60000	.95000	953.00	.5600-02	.4600-02	.5600-02	.2184-03	.1813-03	.2184-03	.1400	1.644	538.0
71	.70000	.20000	954.00	.2530-01	.2090-01	.2530-01	.9880-03	.8177-03	.9880-03	.6210	5.107	549.8

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U02)

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (1AW)	H(1TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAH) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DT/DT DEG. R /SEC	TH DEG. R
71	.70000	.40000	955.00	.9500-02	.7900-02	.9500-02	.3724-03	.3085-03	.3724-03	.2350	1.939	546.3
71	.70000	.90000	956.00	.2200-02	.1800-02	.2200-02	.8656-04	.7185-04	.8656-04	.5500-01	.4580	538.4
71	.75000	.10000-00	957.00	.6850-01	.5670-01	.6850-01	.2680-02	.2214-02	.2680-02	1.666	13.66	556.4
71	.75000	.20000	958.00	.3890-01	.3220-01	.3890-01	.1521-02	.1257-02	.1521-02	.9510	8.440	552.6
71	.75000	.40000	959.00	.1490-01	.1230-01	.1490-01	.5818-03	.4818-03	.5818-03	.3670	3.140	547.2
71	.75000	.60000	960.00	.7300-02	.6100-02	.7300-02	.2857-03	.2368-03	.2857-03	.1810	1.557	544.7
71	.75000	.90000	962.00	.2200-02	.1800-02	.2200-02	.8455-04	.7018-04	.8455-04	.5400-01	.4470	538.8
71	.80000	.90000	963.00	.3400-02	.2800-02	.3400-02	.1313-03	.1090-03	.1313-03	.8400-01	.6590	539.0
71	.90000	.20000	964.00	.4650-01	.3850-01	.4650-01	.1819-02	.1504-02	.1819-02	1.136	10.08	553.6
71	.90000	.40000	965.00	.2170-01	.1790-01	.2170-01	.8459-03	.7005-03	.8459-03	.5330	4.745	547.5
71	.95000	.40000	967.00	.2560-01	.2120-01	.2560-01	.9983-03	.8269-03	.9983-03	.6300	4.675	546.7
71	.95000	.80000	968.00	.4300-02	.3600-02	.4300-02	.1679-03	.1393-03	.1679-03	.1070	.8240	540.5

OH-498 (AEDC V41B-57A) ORBITER UPPER WING

ALPHA =	25.00	BETA =	.0000	ELEVTR =	.0000	SPOBRK =	.0000
BDFLAP =	.0000	MACH =	8.0000				

...TEST CONDITIONS...

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
49	.7795-07	.4348-01	.0175
50	.7852-07	.4354-01	.2354-01
51	.7827-01	.4354-01	.2364-01
			.6359-01

•••TEST DATA•••

RUN NUMBER	2Y/8	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(14H) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTMOT DEG. R /SEC	TW DEG. R
50	.25000	.85000-01	938.00	.3700-02	.3100-02	.3700-02	.1625-03	.1352-03	.1625-03	.1080	.8010	544.7
50	.25000	.13500	939.00	.2100-02	.1700-02	.2100-02	.9136-04	.7599-04	.9136-04	.6100-01	.2700	544.3
50	.25000	.22500	940.00	.3000-02	.2500-02	.3000-02	.1315-03	.1094-03	.1315-03	.8700-01	.2430	545.0
50	.40000	.50000-01	941.00	.2400-01	.1990-01	.2400-01	.1043-02	.8655-03	.1043-02	.6810	6.036	555.6
50	.40000	.20000	942.00	.1210-01	.1000-01	.1210-01	.5266-03	.4372-03	.5266-03	.3460	2.560	551.5
50	.40000	.40000	943.00	.3100-02	.2600-02	.3100-02	.1358-03	.1128-03	.1358-03	.8900-01	.7350	550.4
50	.40000	.60000	944.00	.4000-03	.4000-03	.4000-03	.1874-04	.1557-04	.1874-04	.1200-01	.1250	548.3
50	.40000	.95000	945.00	.4000-02	.3300-02	.4000-02	.1724-03	.1434-03	.1724-03	.1140	1.019	544.9
50	.60000	.25000-01	946.00	.1022	.8340-01	.1022	.4449-02	.3630-02	.4449-02	.2.649	51.84	613.1
50	.60000	.50000-01	947.00	.1054	.8670-01	.1054	.4588-02	.3774-02	.4588-02	2.859	34.66	585.4
50	.60000	.10000+00	948.00	.5200-01	.4300-01	.5200-01	.2262-02	.1874-02	.2262-02	1.464	12.93	561.7
50	.60000	.20000	949.00	.1410-01	.1170-01	.1410-01	.6154-03	.5108-03	.6154-03	.4030	3.084	553.2
50	.60000	.40000	950.00	.5500-02	.4500-02	.5500-02	.2378-03	.1974-03	.2378-03	.1560	1.334	551.5
50	.60000	.60000	951.00	.2300-02	.1900-02	.2300-02	.9955-04	.8269-04	.9955-04	.6600-01	.5830	549.7
50	.60000	.95000	952.00	.1800-02	.1500-02	.1800-02	.7842-04	.6520-04	.7842-04	.5200-01	.4130	546.0
50	.60000	.95000	953.00	.6100-02	.5000-02	.6100-02	.2644-03	.2199-03	.2644-03	.1750	2.052	546.0
50	.70000	.20000	954.00	.2450-01	.2030-01	.2450-01	.1065-02	.8834-03	.1065-02	.6950	5.698	556.3

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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(RV1U02)

OH-498 (AEDC V41B-57A) (RBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAP)	H(9T0) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1A1) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
50	.70000	.40000	955.00	.1300-01	.1080-01	.1300-01	.5674-03	.4709-03	.5674-03	.3720	3.054	553.2
50	.70000	.90000	956.00	.2600-02	.2200-02	.2600-02	.1147-03	.9539-01	.1147-03	.7600-01	.6280	545.1
50	.75000	.10000*00	957.00	.7340-01	.6070-01	.7340-01	.3195-02	.2645-02	.3195-02	2.065	16.88	562.1
50	.75000	.20000	958.00	.3960-01	.3280-01	.3960-01	.1723-02	.1428-02	.1723-02	1.119	9.901	558.9
50	.75000	.40000	959.00	.1660-01	.1380-01	.1660-01	.7244-03	.6011-03	.7244-03	.4740	4.046	553.6
50	.75000	.60000	960.00	.9800-02	.8100-02	.9800-02	.4263-03	.3540-03	.4263-03	.2800	2.393	551.0
50	.75000	.90000	962.00	.2600-02	.2100-02	.2600-02	.1117-03	.9292-04	.1117-03	.7400-01	.6120	544.9
50	.80000	.90000	963.00	.3800-01	.3200-02	.3800-01	.1670-03	.1389-03	.1670-03	.1110	.8650	545.2
50	.90000	.20000	964.00	.6000-01	.4970-01	.6000-01	.2613-02	.2163-02	.2613-02	1.685	14.86	563.9
50	.90000	.40000	965.00	.2280-01	.1890-01	.2280-01	.9941-03	.8250-03	.9941-03	.6510	5.778	553.2
50	.95000	.40000	967.00	.2320-01	.1920-01	.2320-01	.1008-02	.8370-03	.1008-02	.6620	4.897	551.9
50	.95000	.80000	968.00	.5600-02	.4700-02	.5600-02	.2451-03	.2037-03	.2451-03	.1620	1.246	546.2

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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(RV1U02)

OH-498 (AEDC V41B-57A) CRBITER UPPER WING

## UPPER WING

## PARAMETRIC DATA

ALPHA = 25.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
31	6.000	3.352	25.05	.0000	180.0	753.2	.7800-01	1332.	96.50	3.484	3851.	.6762-04
32	8.000	3.729	25.07	.0000	180.0	761.1	.7800-01	1340.	97.10	3.492	3862.	.6737-04
33	8.000	3.291	25.04	.0000	180.0	759.8	.7800-01	1349.	97.70	3.486	3875.	.6681-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
31	.7768-07	.4603-01	0.0175
32	.7816-07	.4614-01	.2228-01
33	.7868-07	.4615-01	.2238-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAD)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DT/DT DEG. R /SEC	TH DEG. R
32	.25000	.13500	939.00	.2200-02	.1800-02	.2203-02	.1010-03	.8404-04	.1010-03	.6700-01	.2980	543.7
32	.25000	.22500	940.00	.2200-02	.1800-02	.2203-02	.1010-03	.8404-04	.1010-03	.6700-01	.2980	544.8
32	.40000	.50000-01	941.00	.2410-01	.2000-01	.2410-01	.1112-02	.9210-03	.1112-02	.7190	6.356	559.4
32	.40000	.20000	942.00	.1940-01	.1610-01	.1940-01	.0953-03	.7421-03	.0953-03	.5810	4.287	556.9
32	.40000	.40000	943.00	.4500-02	.3700-02	.4500-02	.2087-03	.1730-03	.2087-03	.1360	1.113	555.7
32	.40000	.60000	944.00	.8000-03	.6000-03	.8000-03	.3572-04	.2953-04	.3572-04	.2300-01	.2340	554.7
32	.40000	.95000	945.00	.4200-02	.3500-02	.4200-02	.1946-03	.1616-03	.1946-03	.1270	53.16	550.8
32	.60000	.25000-01	946.00	.1008	.8210-01	.1003	.4652-02	.3786-02	.4652-02	2.725	34.59	590.7
32	.60000	.50000-01	947.00	.1008	.8280-01	.1003	.4650-02	.3819-02	.4650-02	2.860	34.59	590.7
32	.60000	.10000-00	948.00	.5020-01	.4150-01	.5020-01	.2317-02	.1915-02	.2317-02	1.492	13.06	566.2
32	.60000	.20000	949.00	.1320-01	.1100-01	.1320-01	.6098-03	.5052-03	.6098-03	3.950	3.010	558.6
32	.60000	.40000	950.00	.2300-02	.1900-02	.2300-02	.1062-03	.8800-04	.1062-03	.6900-01	.5870	556.4
32	.60000	.60000	951.00	.2500-02	.2100-02	.2500-02	.1161-03	.9628-04	.1161-03	.7600-01	.6690	555.7
32	.60000	.80000	952.00	.2000-02	.1700-02	.2000-02	.9319-04	.7735-04	.9319-04	.6100-01	.4830	551.9
32	.60000	.95000	953.00	.6000-02	.5000-02	.6000-02	.2791-03	.2317-03	.2791-03	.1830	2.134	551.2
32	.70000	.20000	954.00	.2950-01	.2450-01	.2950-01	.1367-02	.1132-02	.1367-02	.8800	7.195	562.2
32	.70000	.40000	955.00	.1510-01	.1250-01	.1510-01	.6962-03	.5768-03	.6962-03	.4510	3.692	558.5

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1U02)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (-A)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
32	.70000	.90000	956.00	.2600-02	.2200-02	.2600-02	.1205-03	.1000-03	.1205-03	.7900-01	.6500	549.9
32	.75000	.10000+00	957.00	.8010-01	.6520-01	.8010-01	.3696-02	.3054-02	.3696-02	2.353	19.17	569.2
32	.75000	.20000	958.00	.5020-01	.4150-01	.5020-01	.2315-02	.1914-02	.2315-02	1.482	13.06	565.8
32	.75000	.40000	959.00	.1960-01	.1630-01	.1950-01	.9055-03	.7503-03	.9055-03	.5870	4.990	558.1
32	.75000	.60000	960.00	.1800-01	.1490-01	.1800-01	.8259-03	.6874-03	.8259-03	.5370	4.565	558.9
32	.75000	.80000	962.00	.2200-02	.1800-02	.2200-02	.1015-03	.8430-04	.1015-03	.6700-01	.5490	549.0
32	.80000	.90000	963.00	.4300-02	.3500-02	.4300-02	.1969-03	.1636-03	.1969-03	.1300	1.011	547.8
32	.90000	.20000	964.00	.7680-01	.6350-01	.7680-01	.3545-02	.2928-02	.3545-02	2.254	19.82	570.1
32	.90000	.40000	965.00	.3280-01	.2720-01	.3280-01	.1513-02	.1254-02	.1513-02	.9810	8.682	557.4
32	.95000	.40000	967.00	.3920-01	.3250-01	.3920-01	.1807-02	.1498-02	.1807-02	1.172	8.650	557.0
32	.95000	.80000	968.00	.5300-02	.4400-02	.5300-02	.2459-03	.2043-03	.2459-03	.1620	1.240	548.0

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) OFBITER UPPER WING

(RV1U02)

UPPER WING

## PARAMETRIC DATA

ALPHA = 25.00 BETA = .0000 ELEVTR = .0000 SPD8RK = .0000  
 BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PC PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
4	8.000	25.05	.0000	180.0	862.6	.8800-01	1340.	97.10	3.959	3863.	.7636-04
5	8.000	25.05	.0000	180.0	861.5	.8800-01	1336.	96.80	3.953	3858.	.7645-04
6	8.000	25.04	.0000	180.0	863.7	.8800-01	1341.	97.20	3.964	3864.	.7639-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	ST FR P =	HN/REF BTU/ R FT <sup>2</sup> SEC	RN/L X10 6 /FT
4	.7818-07	.4913-01	0.0175	.4913-01	3.773
5	.7797-07	.4907-01	.2091-01	.4907-01	3.783
6	.7823-07	.4910-01	.2092-01	.4910-01	3.773

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (-AH)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(TAH) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TH DEG. R
5	.25000	.85000-01	938.00	.2400-02	.2000-02	.2400-02	.1200-03	.9982-04	.1200-03	.7900-01	.5890	542.2
5	.25000	.13500	939.00	.1800-02	.1500-02	.1800-02	.9046-04	.7524-04	.9046-04	.6000-01	.2670	541.8
5	.25000	.22500	940.00	.1600-02	.1300-02	.1600-02	.7746-04	.6443-04	.7746-04	.5100-01	.1430	542.1
5	.40000	.50000-01	941.00	.2760-01	.2290-01	.2760-01	.1358-02	.1123-02	.1358-02	.8770	7.766	556.1
5	.40000	.20000	942.00	.2420-01	.2010-01	.2420-01	.1188-02	.9957-03	.1188-02	.7730	5.713	552.6
5	.40000	.40000	943.00	.5100-02	.4300-02	.5100-02	.2524-03	.2096-03	.2524-03	.1650	1.359	548.7
5	.40000	.60000	944.00	.1100-02	.9100-03	.1100-02	.5289-04	.4393-04	.5289-04	.3500-01	.3510	547.2
5	.40000	.95000	945.00	.4400-02	.3700-02	.4400-02	.2169-03	.1803-03	.2169-03	.1430	1.275	543.6
5	.60000	.25000-01	946.00	.9500-01	.8240-01	.9500-01	.4847-02	.3943-02	.4847-02	2.825	55.09	620.0
5	.60000	.50000-01	947.00	.1003	.8240-01	.1033	.4922-02	.4044-02	.4922-02	3.028	36.66	587.7
5	.60000	.10000+00	948.00	.4900-01	.4060-01	.4900-01	.2405-02	.1991-02	.2405-02	1.544	13.64	560.9
5	.60000	.20000	949.00	.1550-01	.1290-01	.1550-01	.7609-03	.6312-03	.7609-03	.4950	3.785	552.6
5	.60000	.40000	950.00	.5500-02	.4600-02	.5500-02	.2703-03	.2244 03	.2703-03	.1770	1.512	548.4
5	.60000	.60000	951.00	.3100-02	.2500-02	.3100-02	.1542-03	.1281-03	.1542-03	.1010	.8990	547.4
5	.60000	.80000	952.00	.2100-02	.1700-02	.2100-02	.1033-03	.8585-04	.1033-03	.6800-01	.5410	544.2
5	.60000	.95000	953.00	.7400-02	.6100-02	.7400-02	.3625-03	.3012-03	.3625-03	.2380	2.795	545.0
5	.70000	.20000	954.00	.2600-01	.2340-01	.2600-01	.1387-02	.1149-02	.1387-02	.8970	7.353	556.3

(RV1U02)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) OR31TER UPPER WING

DATE 25 AUG 76

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	ODO: BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
5	70000	.40000	955.00	.1740-01	.1450-01	.1740-01	.8554-02	.7096-03	.8554-03	.5570	4.574	552.0
5	70000	.90000	956.00	.1300-02	.1100-02	.1300-02	.6325-04	.5260-04	.6325-04	.4200-01	.3450	542.7
5	75000	.10000+00	957.00	.8600-01	.7110-01	.8600-01	.4222-02	.3490-02	.4222-02	2.689	21.94	565.9
5	75000	.20000	958.00	.5140-01	.4260-01	.5140-01	.2523-02	.2088-02	.2523-02	1.520	14.32	560.6
5	75000	.40000	959.00	.2120-01	.1760-01	.2120-01	.1040-02	.0831-03	.1040-02	.6770	5.779	551.9
5	75000	.60000	960.00	.1850-01	.1540-01	.1850-01	.9096-03	.7547-03	.9096-03	.5320	5.057	551.5
5	75000	.80000	962.00	.5003-03	.4000-03	.5000-03	.2523-04	.2098-04	.2523-04	.1700-01	.1380	542.5
5	80000	.90000	963.00	.3600-02	.3000-02	.3600-02	.1743-03	.1450-03	.1743-03	.1150	.9020	541.3
5	90000	.20000	964.00	.8640-01	.7140-01	.8640-01	.4241-02	.3504-02	.4241-02	2.695	23.74	567.2
5	90000	.40000	965.00	.4170-01	.3460-01	.4170-01	.2047-02	.1697-02	.2047-02	1.326	11.76	554.7
5	95000	.40000	967.00	.3980-01	.3300-01	.3980-01	.1951-02	.1618-02	.1951-02	1.267	9.367	553.2
5	95000	.80000	968.00	.5300-02	.4400-02	.5300-02	.2587-03	.2152-03	.2587-03	.1710	1.315	541.9

DATE 25 AUG 76 AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER UPPER WING

UPPER WING

F. AMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 B	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
172	7.900	.5294	30.08	.0000	180.0	108.2	.1200-01	1272.	94.30	.5250	3760.	.1069-04
173	7.900	.5376	30.06	.0000	180.0	110.1	.1200-01	1273.	94.50	.5340	3762.	.1087-04
174	7.900	.5305	30.05	.0000	180.0	108.8	.1200-01	1275.	94.50	.5280	3764.	.1073-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	ST FR R =
172	.7594-07		0.0175
173	.7604-07		.5562-01
174	.7612-07		.5518-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(STO) BTU/R FT <sup>2</sup> SEC	H(TO) BTU/R FT <sup>2</sup> SEC	H(TAH) BTU/R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DT/DT DEG. R /SEC	TW DEG. R
173	.25000	.85000-01	938.00	.4000-02	.3300-02	.4000-02	.7178-04	.5943-04	.7178-04	.4400-01	.3290	533.2
173	.25000	.13500	939.00	.1800-02	.1500-02	.1800-02	.3243-04	.2685-04	.3243-04	.2000-01	.8900-01	532.9
173	.25000	.22500	940.00	.3000-02	.2500-02	.3000-02	.5339-04	.4421-04	.5339-04	.3300-01	.9200-01	533.2
173	.40000	.50000-01	941.00	.1450-01	.1200-01	.1450-01	.2603-03	.2154-03	.2603-03	.1590	1.424	534.9
173	.40000	.20000	942.00	.5900-02	.4900-02	.5900-02	.1084-03	.8811-04	.1084-03	.6500-01	.4860	533.9
173	.40000	.40000	943.00	.8000-03	.7000-03	.8000-03	.1187-04	.1231-04	.1487-04	.9000-02	.7600-01	533.4
173	.40000	.60000	944.00	.1000-03	.1000-03	.1000-03	.2059-05	.1705-05	.2059-05	.1000-02	.1300-01	532.4
173	.40000	.95000	945.00	.1700-02	.1400-02	.1700-02	.3015-04	.2500-04	.3015-04	.1900-01	.1680	527.5
173	.60000	.25000-01	946.00	.1236	.1015	.1236	.2210-02	.1816-02	.2210-02	1.295	26.01	560.3
173	.60000	.50000-01	947.00	.1228	.1012	.1228	.2197-02	.1810-02	.2197-02	1.310	16.17	549.7
173	.60000	.10000+00	948.00	.5810-01	.4800-01	.5810-01	.1039-02	.8595-03	.1039-02	.6320	5.653	537.7
173	.60000	.20000	949.00	.1740-01	.1440-01	.1740-01	.3105-03	.2573-03	.3105-03	.1900	1.470	533.8
173	.60000	.85000	952.00	.8000-03	.6000-03	.8000-03	.1395-04	.1157-04	.1395-04	.9000-02	.6900-01	526.8
173	.60000	.95000	953.00	.3700-02	.3100-02	.3700-02	.6627-04	.5498-04	.6627-04	.4100-01	.4860	526.4
173	.70000	.20000	954.00	.1940-01	.1600-01	.1940-01	.3462-03	.2867-03	.3462-03	.2130	1.784	532.2
173	.70000	.40000	955.00	.7300-02	.6000-02	.7300-02	.1301-03	.1078-03	.1301-03	.8000-01	.6660	529.8
173	.70000	.90000	956.00	.2300-02	.1900-02	.2300-02	.4175-04	.3465-04	.4175-04	.2600-01	.2160	524.6



(RV1003)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
173	.75700	.10000+00	957.00	.5530-01	.4580-01	.5530-01	.9892-03	.8191-03	.9892-03	.6070	5.034	532.8
173	.75000	.20000	958.00	.2850-01	.2350-01	.2850-01	5103-03	.4227-03	.5103-03	.3140	2.813	531.4
173	.75000	.40000	959.00	.1070-01	.8900-02	.1070-01	1911-03	.1544-03	.1911-03	.1180	1.019	528.8
173	.75000	.60000	960.00	.6900-02	.5700-02	.6900-02	1228-03	.1018-03	.1228-03	.7600-01	.6560	527.9
173	.75000	.90000	962.00	.3200-02	.2700-02	.3200-02	5719-04	.4747-04	.5719-04	.3600-01	.2960	524.5
173	.80000	.93000	963.00	.3400-02	.2800-02	.3400-02	6130-04	.5089-04	.6130-04	.3800-01	.3010	523.5
173	.90000	.20000	964.00	.2530-01	.2100-01	.2530-01	4520-03	.3748-03	.4520-03	.2800	2.512	527.7
173	.90000	.40000	965.00	.9500-02	.7900-02	.9500-02	1701-03	.1411-03	.1701-03	.1060	.9490	525.8
173	.95000	.40000	967.00	.1280-01	.1060-01	.1280-01	2288-03	.1899-03	.2288-03	.1420	1.065	525.2
173	.95000	.80000	969.00	.2700-02	.2300-02	.2700-02	4100-04	.4069-04	.4900-04	.3100-01	.2370	523.0

(RV1U03)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

UPPER WING

PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPDRK = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
145	7.940	1.017	30.05	.0000	180.0	210.8	.2300-01	1272.	93.50	1.000	3762.	.2034-04
146	7.940	1.013	30.05	.0000	180.0	210.9	.2300-01	1276.	93.70	1.001	3767.	.2030-04
147	7.940	1.020	30.04	.0000	180.0	212.1	.2300-01	1275.	93.70	1.007	3765.	.2043-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
145	.7527-07	.2447-01	0.0175
146	.7546-07	.2449-01	.4033-01
147	.7541-07	.2456-01	.4038-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.5	H/HREF R=1.0	H/HREF (TAW)	H19TO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
145	.25000	.85000-01	938.00	.3500-02	.2900-02	.3500-02	.8665-04	.7159-04	.8665-04	.5300-01	.3910	541.8
146	.25000	.13500	939.00	.1700-02	.1400-02	.1700-02	.4232-04	.3497-04	.4232-04	.2600-01	.1140	541.6
146	.25000	.22500	940.00	.2100-02	.1700-02	.2100-02	.5040-04	.4163-04	.5040-04	.3100-01	.8500-01	542.2
146	.40000	.50000-01	941.00	.1620-01	.1340-01	.1620-01	.3965-03	.3271-03	.3965-03	.2380	2.121	546.8
146	.40000	.20000	942.00	.7300-02	.6000-02	.7300-02	.1788-03	.1475-03	.1788-03	.1080	.7970	546.7
146	.40000	.40000	943.00	.1100-02	.9000-03	.1100-02	.2799-04	.2309-04	.2799-04	.1700-01	.1390	545.9
146	.40000	.60000	944.00	.4000-03	.3000-03	.4000-03	.1021-04	.8424-05	.1021-04	.6000-02	.6200-01	544.7
146	.40000	.95000	945.00	.1700-02	.1400-02	.1700-02	.4089-04	.3379-04	.4089-04	.2500-01	.2220	540.8
146	.60000	.25000-01	946.00	.1221	.9950-01	.1221	.2990-02	.2439-02	.2990-02	.1.690	33.58	582.6
146	.60000	.50000-01	947.00	.1212	.9940-01	.1212	.2969-02	.2435-02	.2969-02	1.725	21.10	567.2
146	.60000	.10000-00	948.00	.5760-01	.4740-01	.5760-01	.1411-02	.1161-02	.1411-02	.8380	7.434	563.7
146	.60000	.20000	949.00	.1510-01	.1330-01	.1610-01	.3952-03	.3258-03	.3952-03	.2370	1.813	549.2
146	.60000	.40000	950.00	.1200-02	.1000-02	.1200-02	.2987-04	.2465-04	.2987-04	.1800-01	.1540	545.6
146	.60000	.60000	951.00	.8000-03	.6000-03	.8000-03	.1854-04	.1530-04	.1854-04	.1100-01	.1000-00	545.1
146	.60000	.85000	952.00	.7000-03	.6000-03	.7000-03	.1794-04	.1482-04	.1794-04	.1100-01	.8700-01	542.1
146	.60700	.95000	953.00	.4400-02	.3500-02	.4400-02	.1073-03	.8857-04	.1073-03	.6500-01	.7640	541.5
146	.70000	.20000	954.00	.1790-01	.1470-01	.1790-01	.4375-03	.3607-03	.4375-03	.2620	2.155	549.4

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(RV1U03)

DATE 25 AUG 76 AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
146	.70000	.40000	955.00	.1120-01	.9200-02	.1120-01	.2746-03	.2265-03	.2746-03	.1650	1.358	547.6
146	.70000	.90000	956.00	.1500-02	.1300-02	.1500-02	.3955-04	.3268-04	.3955-04	.2400-01	1.980	541.1
146	.75000	.10000+00	957.00	.6860-01	.5650-01	.6860-01	.1800-02	.1384-02	.1680-02	1.001	8.223	552.3
146	.75000	.20000	958.00	.3590-01	.2960-01	.3590-01	.8401-03	.7252-03	.8801-03	.5260	4.658	550.7
146	.75000	.40000	959.00	.1240-01	.1030-01	.1240-01	.3046-03	.2512-03	.3046-03	.1830	1.563	548.0
146	.75000	.60000	960.00	.8500-02	.7000-02	.8500-02	.2083-03	.1719-03	.2083-03	.1250	1.073	546.3
146	.75000	.90000	962.00	.2000-02	.1700-02	.2000-02	.4937-04	.4079-04	.4937-04	.3000-01	.2470	541.3
146	.80000	.90000	963.00	.2800-02	.2300-02	.2800-02	.5856-04	.5666-04	.6856-04	.4200-01	.3260	541.0
146	.90000	.20000	964.00	.2940-01	.2430-01	.2940-01	.7208-03	.5944-03	.7208-03	.4320	7.844	548.2
146	.90000	.40000	965.00	.1210-01	.1000-01	.1210-01	.2966-03	.2448-03	.2966-03	.1790	1.591	545.7
146	.95000	.40000	967.00	.1760-01	.1450-01	.1760-01	.4299-03	.3547-03	.4299-03	.2590	1.920	546.0
146	.95000	.80000	968.00	.3200-02	.2600-02	.3200-02	.7762-04	.6413-04	.7762-04	.4700-01	.5620	541.5

REPRODUCIBILITY OF THIS  
ORIGINAL PAGE IS POOR

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U03)

## PARAMETRIC DATA

ALPHA = 30.00 RETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
124	7.970	30.06	.0000	180.0	321.0	.3400-01	1283.	93.60	1.498	3779.	.3019-04
125	7.970	30.06	.0000	180.0	321.0	.3400-01	1284.	93.70	1.498	3780.	.3018-04
126	7.970	30.08	.0000	180.0	321.9	.3400-01	1283.	93.60	1.502	3778.	.3029-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
124	.7539-07	.2999-01	0.0175
125	.7542-07	.3000-01	.3313-01
126	.7535-07	.3003-01	.3307-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(11AM) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTMDT DEG. R /SEC	TW DEG. R
125	.25000	.85000-01	938.00	.3400-02	.2800-02	.3400-02	.1027-03	.8492-04	.1027-03	.6300-01	.4690	541.6
125	.25000	.13500	939.00	.1700-02	.1400-02	.1700-02	.5246-04	.4339-04	.5246-04	.3200-01	.1440	541.3
125	.25000	.22500	940.00	.2000-02	.1700-02	.2000-02	.6078-04	.5026-04	.6078-04	.3700-01	.1040	541.9
125	.40000	.50000-01	941.00	.1810-01	.1500-01	.1810-01	.5442-03	.4493-03	.5442-03	.3310	2.943	547.5
125	.40000	.20000	942.00	.8200-02	.6800-02	.8200-02	.2471-03	.2042-03	.2471-03	.1510	1.118	545.5
125	.40000	.40000	943.00	.1700-02	.1400-02	.1700-02	.5039-04	.4164-04	.5039-04	.3100-01	.2540	544.5
125	.40000	.60000	944.00	.6000-03	.5000-03	.6000-03	.1651-04	.1364-04	.1651-04	.1000-01	.1020	543.6
125	.40000	.95000	945.00	.1200-02	.1200-02	.1400-02	.4281-04	.3541-04	.4281-04	.2600-01	.2350	540.4
125	.60000	.25000-01	946.00	.1199	.9770-01	.1199	.3597-02	.2932-02	.3597-02	2.035	40.28	589.7
125	.60000	.50000-01	947.00	.1203	.9860-01	.1203	.3607-02	.2958-02	.3607-02	2.109	25.75	570.8
125	.60000	.10000+00	948.00	.5763-01	.4750-01	.5760-01	.1728-02	.1425-02	.1728-02	1.042	9.244	552.7
125	.60000	.20000	949.00	.1580-01	.1310-01	.1580-01	.4750-03	.3922-03	.4750-03	.2890	2.217	546.9
125	.60000	.40000	950.00	.2500-02	.2000-02	.2500-02	.7435-04	.6144-04	.7435-04	.4500-01	.3890	544.5
125	.60000	.60000	951.00	.1303-02	.1000-02	.1300-02	.3773-04	.3119-04	.3773-04	.2300-01	.2060	543.5
125	.60000	.85000	952.00	.1300-02	.1100-02	.1300-02	.3885-04	.3214-04	.3885-04	.2400-01	.1900	541.2
125	.60000	.95000	953.00	.5400-02	.4400-02	.5400-02	.1611-03	.1332-03	.1611-03	.9900-01	1.162	541.2
125	.70000	.20000	954.00	.2080-01	.1720-01	.2080-01	.6249-03	.5159-03	.6249-03	.3800	3.130	547.3

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AEDC V-KF V-18-57A (04-498) COLLATION DECK

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CH-49B (AEDC V-18-57A) ORBITER UPPER WING

(RV1U03)

RUN NUMBER	2Y/3	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
125	.70000	.40000	.55.00	.6800-02	.5500-02	.6800-02	.2040-03	.1685-03	.2040-03	.1250	1.027	544.9
125	.70000	.90000	956.00	.2000-02	.1700-02	.2000-02	.6045-04	.5001-04	.6045-04	.3700-01	.3070	540.1
125	.75000	.10000+00	957.00	.6040-01	.4930-01	.6040-01	.1812-02	.1495-02	.1812-02	1.096	9.011	550.7
125	.75000	.20000	958.00	.3480-01	.2680-01	.3480-01	.1045-02	.6326-03	.1045-02	.6340	5.532	549.1
125	.75000	.40000	959.00	.1150-01	.9500-02	.1150-01	.3441-03	.2943-03	.3441-03	.2100	1.797	545.4
125	.75000	.60000	960.00	.6500-02	.5400-02	.6500-02	.1949-03	.1611-03	.1949-03	.1190	1.021	543.9
125	.75000	.90000	962.00	.2700-02	.2500-02	.2700-02	.8171-04	.6760-04	.8171-04	.5000-01	.4160	540.1
125	.80000	.90000	963.00	.3800-02	.3100-02	.3800-02	.1137-03	.9411-04	.1137-03	.7000-01	.5480	540.1
125	.90000	.20000	964.00	.3700-01	.3060-01	.3700-01	.1111-02	.9173-03	.1111-02	.6750	5.999	548.3
125	.90000	.40000	965.00	.1770-01	.1460-01	.1770-01	.5301-03	.4331-03	.5301-03	.3240	2.885	544.5
125	.95000	.40000	967.00	.2360-01	.1950-01	.2360-01	.7081-03	.5531-03	.7081-03	.4320	3.211	544.6
125	.95000	.80000	968.00	.4000-02	.3300-02	.4000-02	.1210-03	.1001-03	.1210-03	.7400-01	.5730	540.5

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U03)

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
91	7.980	30.07	.0000	180.0	431.5	.4500-01	1289.	93.80	2.002	3787.	.4017-04
92	7.980	30.07	.0000	180.0	432.5	.4510-01	1286.	93.60	2.007	3784.	.4034-04
93	7.980	30.07	.0000	180.0	432.2	.4500-01	1285.	93.60	2.006	3782.	.4035-04

RUN NUMBER	MU	LD-SEC /FT <sup>2</sup>	ST FR P =
91	.7533-07		0.0175
92	.7533-07		.2873-01
93	.7533-07		.2867-01
			.2866-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(14W) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
92	.25000	.85000-01	938.00	.3500-02	.2900-02	.3500-02	.1222-03	.1012-03	.1222-03	.7600-01	.5670	535.7
92	.25000	.13500	939.00	.1900-02	.1600-02	.1900-02	.6595-04	.5466-04	.6595-04	.4100-01	.5670	535.1
92	.25000	.22500	940.00	.2000-03	.1000-03	.2000-03	.5503-05	.4561-05	.5503-05	.3000-02	.1000-01	535.2
92	.40000	.50000-01	941.00	.2120-01	.1760-01	.2120-01	.7376-03	.6103-03	.7376-03	.4550	4.057	541.4
92	.40000	.20000	942.00	.1110-01	.9200-02	.1110-01	.3853-03	.3189-03	.3853-03	.2380	1.774	539.1
92	.40000	.40000	943.00	.2000-02	.1600-02	.2000-02	.6785-04	.5618-04	.6785-04	.4200-01	.3480	538.6
92	.40000	.50000	944.00	.6002-03	.5000-03	.6000-03	.1954-04	.1627-04	.1954-04	.1200-01	.1240	536.3
92	.40000	.95000	945.00	.1200-02	.1500-02	.1200-02	.6421-04	.5334-04	.6421-04	.4100-01	.3640	526.5
92	.60000	.25000-01	946.00	.1155	.9410-01	.1155	.4009-02	.3269-02	.4009-02	2.278	45.10	589.5
92	.60000	.50000-01	947.00	.1154	.6800-01	.1154	.4148-02	.3404-02	.4148-02	2.441	29.84	589.1
92	.60000	.10000-00	948.00	.5350-01	.4530-01	.5350-01	.2033-02	.1679-02	.2033-02	1.239	11.01	548.4
92	.60000	.20000-00	949.00	.1740-01	.1440-01	.1740-01	.6048-03	.5003-03	.6048-03	.3720	2.662	542.3
92	.60000	.40000	950.00	.2700-02	.2200-02	.2700-02	.9430-04	.7805-04	.9430-04	.5800-01	.5010	539.5
92	.60000	.60000	951.00	.1400-02	.1200-02	.1400-02	.5004-04	.4145-04	.5004-04	.3100-01	.2780	537.2
92	.60000	.80000	952.00	.1900-02	.1600-02	.1900-02	.6550-04	.5435-04	.6550-04	.4100-01	.3290	530.8
92	.60000	.95000	953.00	.6300-02	.5300-02	.6300-02	.2203-03	.1829-03	.2203-03	.1390	1.638	528.4
92	.70000	.20000	954.00	.2720-01	.2200-01	.2720-01	.9451-03	.7814-03	.9451-03	.5900	4.790	543.6

(RV1U03)

AEDC VKF V4HB-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V4HB-57A) ORBITER UPPER WING

DATE 25 AUG 76

RUN NUMBER	21/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
92	.70000	.40000	955.00	.1170-01	.9600-02	.1170-01	.4049-03	.3350-03	.4049-03	.2500	2.063	541.1
92	.70000	.90000	956.00	.2900-02	.2400-02	.2900-02	.1023-03	.8488-04	.1023-03	.6400-01	.5340	529.7
92	.75000	.10000+00	957.00	.6340-01	.5230-01	.6340-01	.2201-02	.1817-02	.2201-02	1.342	11.05	547.9
92	.75000	.20000	958.00	.4570-01	.3770-01	.4570-01	.1585-02	.1310-02	.1585-02	.9680	8.615	547.1
92	.75000	.40000	959.00	.1910-01	.1580-01	.1910-01	.6644-03	.5494-03	.6644-03	.4090	3.503	542.8
92	.75000	.60000	960.00	.1390-01	.1150-01	.1390-01	.4817-03	.3986-03	.4817-03	.2970	2.550	540.9
92	.75000	.80000	962.00	.2600-02	.2100-02	.2600-02	.8880-04	.7370-04	.8880-04	.5500-01	.4630	529.8
92	.80000	.90000	963.00	.3500-02	.3000-02	.3500-02	.1284-03	.1049-03	.1284-03	.7900-01	.6240	530.5
92	.90000	.20000	964.00	.5300-01	.4300-01	.5300-01	.1807-02	.1493-02	.1807-02	1.103	9.810	547.5
92	.90000	.40000	965.00	.2440-01	.2020-01	.2440-01	.8462-03	.7001-03	.8462-03	.5220	4.655	541.2
92	.95000	.40000	967.00	.3490-01	.2880-01	.3490-01	.1211-02	.1002-02	.1211-02	.7460	5.545	541.7
92	.95000	.80000	968.00	.4700-02	.3900-02	.4700-02	.1633-03	.1354-03	.1633-03	.1020	.7880	532.6

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U03)

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPDRBK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
73	7.990	2.486	30.07	.0000	180.0	544.6	.5600-01	1305.	94.80	2.513	3812.	.4977-04
74	7.990	2.513	30.07	.0000	180.0	547.2	.5700-01	1300.	94.40	2.525	3804.	.5021-04
75	7.990	2.521	30.03	.0000	180.0	546.9	.5500-01	1297.	94.20	2.524	3800.	.5031-04

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19T01 BTU/ R FT2SEC	H1T01 BTU/ R FT2SEC	H1T01 BTU/ R FT2SEC	OOOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
74	.25000	.85000-01	938.00	.3400-02	.2800-02	.3400-02	.1316-03	.1091-03	.1316-03	.8300-01	.6180	539.5
74	.25000	.13500	939.00	.1700-02	.1400-02	.1700-02	.6630-04	.5497-04	.6630-04	.4200-01	.1870	538.9
74	.25000	.22500	940.00	.1700-02	.1400-02	.1700-02	.6546-04	.5428-04	.6546-04	.4100-01	.1150	539.1
74	.40000	.50000-01	941.00	.2210-01	.1830-01	.2210-01	.8638-03	.7148-03	.8638-03	.5390	4.794	546.4
74	.40000	.20000	942.00	.1200-01	.1000-01	.1200-01	.4700-03	.3893-03	.4700-03	.2950	2.188	543.2
74	.40000	.40000	943.00	.1900-02	.1500-02	.1900-02	.258-04	.6012-04	.258-04	.4600-01	.3760	542.5
74	.40000	.60000	944.00	.7000-03	.6000-03	.7000-03	.2696-04	.2234-04	.2696-04	.1700-01	.1720	540.6
74	.40000	.95000	945.00	.2000-02	.1700-02	.2000-02	.7914-04	.6576-04	.7914-04	.5100-01	.4540	531.0
74	.60000	.25000-01	946.00	.1161	.9450-01	.1161	.4530-02	.3699-02	.4530-02	2.582	50.86	599.9
74	.60000	.50000-01	947.00	.1152	.9450-01	.1152	.4497-02	.3698-02	.4497-02	2.666	32.46	576.9
74	.60000	.10000+00	948.00	.5790-01	.4780-01	.5790-01	.2259-02	.1866-02	.2259-02	1.393	12.35	553.4
74	.60000	.20000	949.00	.1640-01	.1360-01	.1640-01	.6337-03	.5294-03	.6337-03	.3990	3.062	546.1
74	.60000	.40000	950.00	.2900-02	.2400-02	.2900-02	.1151-03	.9536-04	.1151-03	.7200-01	.6190	542.7
74	.60000	.60000	951.00	.1900-02	.1600-02	.1900-02	.7379-04	.6115-04	.7379-04	.4600-01	.4140	541.3
74	.60000	.85000	952.00	.1300-02	.1100-02	.1300-02	.5174-04	.4295-04	.5174-04	.3300-01	.2630	534.7
74	.60000	.95000	953.00	.6900-02	.5700-02	.6900-02	.2697-03	.2240-03	.2697-03	.1720	2.025	533.2
74	.70000	.20000	954.00	.2470-01	.2050-01	.2470-01	.9649-03	.7981-03	.9649-03	.6000	4.941	548.1



AEDC VKF V41B-57A (OK-498) COLLATION DECK

DATE 25 AUG 76

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
74	.70000	.40000	955.00	.9300-02	.7700-02	.9300-02	.3642-03	.3015-03	.3642-03	.2280	1.877	544.9
74	.70000	.90000	956.00	.2700-02	.2300-02	.2700-02	.1062-03	.8819-04	.1062-03	.6800-01	.5600	533.7
74	.75000	.10000*00	957.00	.7010-01	.5790-01	.7010-01	.2736-02	.2750-02	.2736-02	1.686	13.84	553.9
74	.75000	.20000	958.00	.4410-01	.3650-01	.4410-01	.1723-02	.1424-02	.1723-02	1.066	9.471	550.8
74	.75000	.40000	959.00	.1320-01	.1100-01	.1320-01	.5170-03	.4280-03	.5170-03	.3230	2.768	544.9
74	.75000	.60000	960.00	.6100-02	.5100-02	.6100-02	.2398-03	.1987-03	.2398-03	.1510	1.291	542.1
74	.75000	.90000	962.00	.2200-02	.1800-02	.2200-02	.8557-04	.7105-04	.8557-04	.5400-01	.4520	533.6
74	.80000	.90000	963.00	.5300-02	.4400-02	.5300-02	.2062-03	.1711-03	.2062-03	.1310	1.029	534.7
74	.90000	.20000	964.00	.6520-01	.5380-01	.6520-01	.2544-02	.2100-02	.2544-02	1.563	13.85	555.3
74	.90000	.40000	965.00	.2760-01	.2290-01	.2760-01	.078-02	.8320-03	.1078-02	.6730	5.989	545.8
74	.95000	.40000	967.00	.2890-01	.2390-01	.2890-01	.1126-02	.9325-03	.1126-02	.7050	5.233	544.1
74	.95000	.80000	968.00	.4600-02	.3900-02	.4600-02	.1776-03	.1474-03	.1776-03	.1130	.8690	535.9

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-498) COLLATION DECK

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UPPER WING

OH-498 (AEDC V41B-57A) ORBITER UPPER WING

(RV1U03)

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPDRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
52	7.990	2.989	30.05	.0000	180.0	673.3	.7000-01	1330.	96.60	3.107	3847.	.6040-04
53	7.930	2.992	30.07	.0000	180.0	674.8	.7000-01	1331.	96.60	3.114	3849.	.6049-04
54	7.930	2.975	30.07	.0000	180.0	673.1	.7000-01	1334.	96.90	3.106	3853.	.6020-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
52	.7775-07	.4346-01		0.0175
53	.7781-07	.4351-01		.2351-01
54	.7799-07	.4347-01		.2355-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2V/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAM) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
53	.25000	.85000-01	938.00	.3100-02	.2500-02	.3100-02	.1334-03	.1108-03	.1334-03	.8700-01	.6470	544.2
53	.25000	.13500	939.00	.1400-02	.1100-02	.1400-02	.5969-04	.4959-04	.5969-04	.3900-01	.1740	544.2
53	.25000	.22500	940.00	.2800-02	.2300-02	.2800-02	.1210-03	.1005-03	.1210-03	.7900-01	.2200	545.0
53	.40000	.50000-01	941.00	.2520-01	.2090-01	.2520-01	.1099-02	.9099-03	.1099-02	.7050	6.248	555.7
53	.40000	.20000	942.00	.1460-01	.1210-01	.1460-01	.6337-03	.5255-03	.6337-03	.4090	3.030	551.4
53	.40000	.40000	943.00	.1900-02	.1600-02	.1900-02	.8235-04	.6833-04	.8235-04	.5300-01	.4400	549.1
53	.40000	.60000	944.00	.6000-03	.5000-03	.6000-03	.2620-04	.2175-04	.2620-04	.1700-01	.1720	547.9
53	.60000	.95000	945.00	.70-02	.2500-02	.3000-02	.1322-03	.1198-03	.1322-03	.8600-01	.7700	543.8
53	.60000	.25000-01	946.00	.1171	.9520-01	.1171	.5096-02	.4144-02	.5096-02	2.951	57.60	610.5
53	.60000	.50000-01	947.00	.1180	.9680-01	.1180	.5135-02	.4212-02	.5135-02	3.118	37.70	590.4
53	.60000	.10000-00	948.00	.5970-01	.4940-01	.5970-01	.2599-02	.2149-02	.2599-02	1.652	14.59	561.9
53	.60000	.20000	949.00	.1770-01	.1460-01	.1770-01	.7684-03	.5369-03	.7684-03	.4950	3.786	553.3
53	.60000	.40000	950.00	.4300-02	.3600-02	.4300-02	.1885-03	.1564-03	.1885-03	.1220	1.045	549.1
53	.60000	.60000	951.00	.2300-02	.1900-02	.2300-02	.1014-03	.8417-04	.1014-03	.6000-01	.5860	548.3
53	.60000	.85000	952.00	.1400-02	.1200-02	.1400-02	.6144-04	.5104-04	.6144-04	.4000-01	.3190	544.6
53	.60000	.95000	953.00	.6500-02	.5400-02	.6500-02	.2812-03	.2336-03	.2812-03	.1840	2.152	544.6
53	.70000	.20000	954.00	.3100-01	.2560-01	.3100-01	.1347-02	.1116-02	.1347-02	.8650	7.099	555.3

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9T0) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1A1) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
53	.70000	.40000	955.00	.1650-01	.1370-01	.1650-01	.7170-03	.5945-03	.7170-03	.4630	3.804	552.0
53	.70000	.90000	956.00	.4200-02	.3500-02	.4200-02	.1610-03	.1504-03	.1810-03	.1180	.9770	543.9
53	.75000	.10000+00	957.00	.8480-01	.7010-01	.8480-01	.3588-02	.3049-02	.3688-02	2.344	19.16	562.1
53	.75000	.20000	958.00	.5520-01	.4560-01	.5520-01	.2400-02	.1986-02	.2400-02	1.530	13.52	560.4
53	.75000	.40000	959.00	.1970-01	.1640-01	.1970-01	.8593-03	.7126-03	.8593-03	.5550	4.739	551.6
53	.75000	.60000	960.00	.8200-02	.6800-02	.8200-02	.3572-03	.2965-03	.3572-03	.2320	1.984	548.1
53	.75000	.90000	962.00	.3800-02	.3100-02	.3800-02	.1640-03	.1363-03	.1640-03	.1070	.8850	543.5
53	.80000	.90000	963.00	.5000-02	.4200-02	.5000-02	.2187-03	.1818-03	.2187-03	.1430	1.119	555.8
53	.90000	.20000	964.00	.4340-01	.3600-01	.4340-01	.1889-02	.1565-02	.1689-02	1.212	10.74	549.6
53	.90000	.40000	965.00	.2050-01	.1740-01	.2090-01	.9107-03	.7555-03	.9107-03	.5900	5.244	552.2
53	.95000	.40000	967.00	.3720-01	.3090-01	.3720-01	.1620-02	.1343-02	.1620-02	1.045	7.730	543.7
53	.95000	.60000	968.00	.5600-02	.4600-02	.5600-02	.2432-03	.2021-03	.2432-03	.1590	1.222	

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U03)

UPPER WING

PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
34	8.000	3.293	30.09	.0000	180.0	762.3	.7800-01	1351.	97.90	3.498	3878.	.5892-04
35	8.000	3.311	30.09	.0000	180.0	760.5	.7800-01	1344.	97.40	3.490	3868.	.6711-04
36	8.000	3.342	30.11	.0000	180.0	762.1	.7800-01	1337.	96.90	3.497	3859.	.6758-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
34	.7881-07	.4624-01	0.0175
35	.7840-07	.4214-01	.2233-01
36	.7803-07	.4515-01	.2224-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
35	.25000	.13500	939.00	.1500-02	.1200-02	.1500-02	.6706-04	.5882-04	.6706-04	.4500-01	.2000	542.2
35	.25000	.22500	940.00	.1200-02	.1000-02	.1200-02	.5475-04	.4556-04	.5475-04	.3600-01	.1020	543.6
35	.40000	.50000-01	941.00	.2810-01	.2330-01	.2810-01	.1298-02	.1075-02	.1298-02	.8430	7.457	559.6
35	.40000	.20000	942.00	.1880-01	.1560-01	.1880-01	.8695-03	.7212-03	.8695-03	.5680	4.194	556.0
35	.40000	.40000	943.00	.1700-02	.1400-02	.1700-02	.7904-04	.6558-04	.7904-04	.5200-01	.4250	554.9
35	.40000	.60000	944.00	.9000-03	.7000-03	.9000-03	.3955-04	.3281-04	.3955-04	.2600-01	.2610	555.2
35	.40000	.95000	945.00	.2600-02	.2100-02	.2600-02	.1183-03	.9825-04	.1183-03	.7800-01	.6930	550.1
35	.60000	.25000-01	946.00	.1171	.9510-01	.1171	.5404-02	.4388-02	.5404-02	.3.137	60.93	628.9
35	.60000	.50000-01	947.00	.1193	.9830-01	.1193	.5532-02	.4536-02	.5532-02	.3.384	40.77	597.8
35	.60000	.10000-00	948.00	.5790-01	.4780-01	.5790-01	.2670-02	.2208-02	.2670-02	1.715	15.10	56.3
35	.60000	.20000	949.00	.1980-01	.1640-01	.1980-01	.3125-03	.2563-03	.3125-03	.5940	4.528	558.7
35	.60000	.40000	950.00	.3000-02	.2500-02	.3000-02	.1389-03	.1152-03	.1389-03	.9100-01	.7750	554.9
35	.60000	.60000	951.00	.2800-02	.2300-02	.2800-02	.1295-03	.1075-03	.1295-03	.8500-01	.7510	555.2
35	.60000	.85000	952.00	.1400-02	.1200-02	.1400-02	.5685-04	.5552-04	.5685-04	.4400-01	.3490	551.3
35	.60000	.95000	953.00	.5500-02	.4500-02	.5500-02	.2516-03	.2090-03	.2516-03	.1660	1.940	550.0
35	.70000	.20000	954.00	.3470-01	.2880-01	.3470-01	.1603-02	.1328-02	.1603-02	1.04C	8.506	560.9
35	.70000	.40000	955.00	.2300-01	.1910-01	.2300-01	.1061-02	.8798-03	.1061-02	.6910	5.661	558.4

(RVTU03)

AEDC VKF V41B-57A (OH-498) COLLATION (ECK

CH-498 (AEDC V41B-57A) ORBITER UPPER WING

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PUR NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAK)	H19TO BTU/ R FT/SEC	H1TO BTU/ R FT/SEC	HITAM BTU/ R FT/SEC	COOT BTU/ FT/SEC	OTWD DEG. R /SEC	TW DEG. R
35	70000	.90000	90.00	.3900-02	.3100-02	.3900-02	.1727-03	.1443-03	.1737-03	.1150	.9450	548.5
35	75000	.10000+00	957.00	.4033	.8500-01	.1033	.4726-02	.3931-02	.4733-02	3.055	24.85	572.4
35	75000	.20000	959.00	.6200-01	.2300-01	.6200-01	.2919-02	.2414-02	.2919-02	1.878	16.56	565.8
35	75000	.40000	959.00	.2410-01	.2410-01	.2410-01	.1111-02	.9213-03	.1111-02	.7250	6.177	556.5
35	75000	.60000	959.00	.2760-01	.2200-01	.2760-01	.1275-02	.1015-02	.1275-02	.8280	7.035	560.3
35	75000	.80000	959.00	.3100-02	.3100-02	.3100-02	.1723-03	.1415-03	.1703-03	.1130	.9290	547.3
35	80000	.90000	953.00	.6200-02	.5500-02	.6200-02	.3120-03	.2535-03	.3120-03	.2070	1.619	545.3
35	90000	.20000	954.00	.6200-01	.5100-01	.6200-01	.1723-02	.2331-02	.2331-02	1.952	16.44	562.0
35	90000	.40000	955.00	.6200-01	.2300-01	.6200-01	.1723-02	.1055-02	.1308-02	.8592	7.625	553.5
35	95000	.40000	957.00	.4500-01	.4500-01	.4500-01	.2218-02	.1663-02	.2218-02	1.467	10.83	555.1
35	95000	.80000	955.00	.5000-02	.4200-02	.5000-02	.2318-03	.1939-03	.2318-03	.1540	1.185	543.9

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AEDC VKF V418-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V418-57A) ORBITER UPPER WING

(RV1U03)

## UPPER WING

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
 SOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10.5 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
7	8.000	3.750	30.10	.0000	180.0	862.2	8800-01	1345.	97.50	3.957	3870.	.7603-04
8	8.000	3.754	30.10	.0000	180.0	861.4	8800-01	1343.	97.30	3.953	3867.	.7607-04
9	8.000	3.754	30.08	.0000	180.0	863.5	8800-01	1345.	97.50	3.963	3870.	.7613-04

RUN NUMBER	WJ	WJ-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST R P
7	.7845-07	.4914-01	.2093-01	0.0175
8	.7835-07	.4911-01	.2097-01	
9	.7846-07	.4918-01	.2099-01	

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1GTO BTU/ R FT <sup>2</sup> SEC	H1TO BTU/ R FT <sup>2</sup> SEC	H(TAW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTWDT DEG. R /SEC	TW DEG. R
8	.35000	.85000-01	938.00	.3000-02	.2500-02	.3000-02	.1478-03	.1230-07	.1478-03	.9800-01	.7310	543.2
8	.25000	.13500	939.00	.1300-02	.1100-02	.1300-02	.2351-04	.5293-04	.6361-04	.4200-01	.1890	542.7
8	.25000	.25000	940.00	.1800-02	.1500-02	.1800-02	.8755-04	.7285-04	.8755-04	.5800-01	.1620	543.5
8	.40000	.50000-01	941.00	.2930-01	.2430-01	.2930-01	.1437-02	.1191-02	.1437-02	.9340	8.264	558.7
8	.40000	.20000	942.00	.2350-01	.1950-01	.2350-01	.1153-02	.9551-03	.1153-02	.7530	5.560	555.4
8	.40000	.40000	943.00	.2000-02	.1700-02	.2000-02	.9847-04	.6177-04	.9847-04	.6500-01	.5320	551.1
8	.40000	.60000	944.00	.9000-03	.8000-03	.9000-03	.4557-04	.3785-04	.4557-04	.3000-01	.3030	550.4
8	.50000	.95000	945.00	.3100-02	.2600-02	.3100-02	.1509-03	.1255-03	.1509-03	.1000+00	.8920	545.2
8	.50000	.35000-01	946.00	.9480-01	.8480-01	.9480-01	.5744-02	.4556-02	.5744-02	.3.303	64.00	633.6
8	.50000	.50000-01	947.00	.1211	.9920-01	.1211	.5946-02	.4872-02	.5946-02	.3.620	43.57	599.9
8	.50000	.10000-00	948.00	.5750-01	.4770-01	.5750-01	.2831-02	.2342-02	.2831-02	1.823	16.08	564.8
8	.50000	.20000	949.00	.2020-01	.1680-01	.2020-01	.9935-03	.6236-03	.9935-03	.6480	4.945	556.5
8	.50000	.40000	950.00	.3700-02	.3100-02	.3700-02	.1823-03	.1513-03	.1823-03	.1200	1.021	552.3
8	.50000	.60000	951.00	.3000-02	.2500-02	.3000-02	.1494-03	.1241-03	.1494-03	.9800-01	.8730	550.8
8	.50000	.80000	952.00	.1400-02	.1100-02	.1400-02	.6745-04	.5506-04	.6745-04	.4500-01	.3550	546.1
8	.50000	.95000	953.00	.8100-02	.6700-02	.8100-02	.3375-03	.3305-03	.3375-03	.2630	3.084	546.3
8	.50000	.20000	954.00	.3270-01	.2710-01	.3270-01	.1604-02	.1329-02	.1604-02	1.041	8.525	553.4

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1U03)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
8	.70000	.40000	955.00	.2180-01	.1810-01	.2180-01	.1071-02	.8883-03	.1071-02	.6990	5.732	556.2
8	.70000	.90000	956.00	.2300-02	.1900-02	.2300-02	.1137-03	.9458-04	.1137-03	.7600-01	.6230	544.4
8	.75000	.10000-00	957.00	.1085	.8950-01	.1085	.5329-02	.4397-02	.5329-02	3.377	27.43	575.1
8	.75000	.20000	958.00	.6030-01	.4990-01	.6030-01	.2962-02	.2451-02	.2962-02	1.909	16.84	564.3
8	.75000	.40000	959.00	.2290-01	.1900-01	.2290-01	.1125-02	.9333-03	.1125-02	.7350	6.264	555.3
8	.75000	.60000	960.00	.1760-01	.1460-01	.1760-01	.8630-03	.7161-03	.8630-03	.5650	4.815	554.3
8	.75000	.90000	962.00	.2800-02	.2300-02	.2800-02	.1362-03	.1150-03	.1362-03	.9200-01	.7580	543.8
8	.80000	.90000	963.00	.5700-02	.4800-02	.5700-02	.2805-03	.2334-03	.2805-03	.1870	1.461	542.8
8	.90000	.20000	964.00	.8450-01	.6380-01	.8450-01	.4148-02	.3427-02	.4148-02	2.651	23.32	569.6
8	.90000	.40000	965.00	.4660-01	.3860-01	.4660-01	.2287-02	.1896-02	.2287-02	1.489	13.18	557.4
8	.95000	.40000	967.00	.6010-01	.4980-01	.6010-01	.2952-02	.2446-02	.2952-02	1.915	14.10	560.1
8	.95000	.80000	968.00	.5300-02	.4400-02	.5300-02	.2618-03	.2179-03	.2618-03	.1740	1.341	542.5

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U04)

## UPPER WING

## PARAMETRIC DATA

ALPHA = 30.00 BETA = -2.000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	Y FT/SEC	RHO SLUGS /FT3
175	7.900	.5338	30.07	2.000	202.0	109.4	.1200-01	1274.	94.50	.5310	3763.	.1079-04
176	7.900	.5353	30.08	2.000	202.0	109.5	.1200-01	1272.	94.40	.5320	3761.	.1082-04
177	7.900	.5361	30.08	2.000	202.0	109.6	.1200-01	1272.	94.30	.5320	3760.	.1083-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R F12SEC	ST FR R =
175	.7608-07	.1783-01	0.0175
176	.7598-07	.1784-01	.5531-01
177	.7595-07	.1785-01	.5527-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(GTO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(TAW) BTU/ R F12SEC	QDOT BTU/ R F12SEC	DTMDT DEG. R /SEC	TW DEG. R
176	.25000	.85000-01	938.00	.3100-02	.2500-02	.3100-02	.5453-04	.4516-04	.5453-04	.3300-01	.2500	532.0
176	.25000	.13500	939.00	.1500-02	.1200-02	.1500-02	.2610-04	.2162-04	.2610-04	.1600-01	.7200-01	531.8
176	.40000	.50000-01	941.00	.1150-01	.9500-02	.1150-01	.2049-03	.1695-03	.2049-03	.1250	1.119	534.8
176	.40000	.20000	942.00	.5500-02	.4500-02	.5500-02	.9749-04	.8067-04	.9749-04	.5900-01	.4440	534.9
176	.40000	.40000	943.00	.8000-03	.7000-03	.8000-03	.1449-04	.1199-04	.1449-04	.9000-02	.7300-01	534.3
176	.40000	.60000	944.00	.8000-03	.6000-03	.8000-03	.376-04	.1140-04	.1376-04	.8000-02	.8600-01	532.9
176	.40000	.95000	945.00	.2000-02	.1600-02	.2000-02	.3544-04	.2938-04	.3544-04	.2200-01	.1960	528.5
176	.60000	.25000-01	946.00	.1327	.1088	.1327	.2368-02	.1942-02	.2368-02	1.373	27.52	565.2
176	.60000	.50000-01	947.00	.1267	.1043	.1267	.2259-02	.1861-02	.2259-02	1.343	16.56	550.9
176	.60000	.10000-00	948.00	.5800-01	.4790-01	.5800-01	.1035-02	.8549-03	.1035-02	.6260	5.593	539.8
176	.60000	.20000	949.00	.1810-01	.1500-01	.1810-01	.3226-03	.2668-03	.3226-03	.1960	1.514	536.6
176	.60000	.40000	950.00	.2000-02	.1600-02	.2000-02	.524-04	.2918-04	.3524-04	.2200-01	.1860	532.9
176	.60000	.60000	951.00	.1600-02	.1300-02	.1600-02	.2807-04	.2325-04	.2807-04	.1700-01	.1540	532.4
176	.60000	.85000	952.00	.5000-03	.4000-03	.5000-03	.8180-05	.6780-05	.8180-05	.5000-02	.4000-01	529.3
176	.60000	.95000	953.00	.3900-02	.3200-02	.3900-02	.6979-04	.5765-04	.6979-04	.4300-01	.5080	528.7
176	.70000	.20000	954.00	.1770-01	.1470-01	.1770-01	.3163-03	.2616-03	.3163-03	.1930	1.595	536.2
176	.70000	.40000	955.00	.4500-02	.3600-02	.4500-02	.8110-04	.6712-04	.8110-04	.5000-01	.4110	534.5



(RV1U04)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(OTO) BTU/ R FT2SEC	H(UTO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
176	.70000	.90000	956.00	.2000-03	.1000-03	.2000-03	.3203-05	.2655-05	.3203-05	.2000-02	.1600-01	528.2
176	.75000	.10000+00	957.00	.5690-01	.4700-01	.5690-01	.1015-02	.8393-03	.1015-02	.6170	5.104	537.8
176	.75000	.20000	958.00	.2420-01	.2010-01	.2420-01	.4324-03	.3577-03	.4324-03	.2630	2.358	535.8
176	.75000	.40000	959.00	.7200-02	.6000-02	.7200-02	.1284-03	.1533-03	.1284-03	.7800-01	.6760	534.2
176	.75000	.60000	960.00	.5300-02	.4400-02	.5300-02	.9522-04	.7884-04	.9522-04	.5800-01	.5020	532.8
176	.75000	.90000	962.00	.1000-02	.9000-03	.1000-02	.1870-04	.1550-04	.1870-04	.1200-01	.9600-01	528.4
176	.80000	.90000	963.00	.2700-02	.2200-02	.2700-02	.4751-04	.3939-04	.4751-04	.2900-01	.2310	527.9
176	.90000	.20000	964.00	.2750-01	.2270-01	.2750-01	.4903-03	.4058-03	.4903-03	.3000	2.682	534.3
176	.90000	.40000	965.00	.1020-01	.8400-02	.1020-01	.1813-03	.1501-03	.1813-03	.1110	.9960	532.2
176	.95000	.40000	967.00	.1670-01	.1390-01	.1670-01	.2971-03	.2450-03	.2971-03	.1820	1.361	532.0
176	.95000	.80000	968.00	.2100-02	.1700-02	.2100-02	.5741-04	.3101-04	.5741-04	.2300-01	.1780	528.9

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1004)

UPPER WING

## PARAMETRIC DATA

ALPHA = 30.00 BETA = -2.000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
148	7.940	1.024	30.05	2.000	202.0	211.1	.2300-01	1267.	93.10	1.002	3754.	.2046-04
149	7.940	1.038	30.08	2.000	202.0	211.6	.2300-01	1258.	92.40	1.004	3740.	.2066-04
150	7.940	1.055	30.09	2.000	202.0	213.9	.2300-01	1253.	92.10	1.015	3734.	.2095-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FP R =
148	7.956-07		.2447-01	0.0175
149	7.940-07		.2447-01	.4020-01
150	7.916-07		.2459-01	.3997-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(11AM) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TW DEG. R
149	.25000	.85000-01	938.00	.2800-02	.2300-02	.2800-02	.6910-04	.5696-04	.6910-04	.4100-01	.3030	541.9
149	.25000	.13500	939.00	.1600-02	.1300-02	.1600-02	.3904-04	.3218-04	.3904-04	.2300-01	.1030	541.7
149	.25000	.22500	940.00	.5900-02	.4900-02	.5900-02	.1455-03	.1199-03	.1455-03	.8600-01	.2390	542.1
149	.40000	.50000-01	941.00	.1340-01	.1100-01	.1340-01	.3270-03	.2692-03	.3270-03	.1910	1.704	546.4
149	.40000	.20700	942.00	.6000-02	.5000-02	.6000-02	.1479-03	.1218-03	.1479-03	.8700-01	.6430	546.1
149	.40000	.40000	943.00	.5000-03	.4000-03	.5000-03	.1273-04	.1048-04	.1273-04	.7000-02	.6200-01	545.3
149	.40000	.60000	944.00	.8000-03	.7000-03	.8000-03	.2066-04	.1702-04	.2066-04	.1200-01	.1230	544.5
149	.40000	.95000	945.00	.1400-02	.1200-02	.1400-02	.3547-04	.2922-04	.3547-04	.2100-01	.1860	543.5
149	.60000	.25000-01	946.00	.1283	.1043	.1283	.3139-02	.2552-02	.3139-02	1.716	34.05	587.1
149	.60000	.50000-01	947.00	.1268	.1037	.1268	.3102-02	.2537-02	.3102-02	1.753	21.45	566.8
149	.60000	.10000+00	948.00	.5850-01	.4810-01	.5850-01	.1431-02	.1176-02	.1431-02	.8290	7.351	552.9
149	.60000	.20000	949.00	.1830-01	.1510-01	.1830-01	.4488-03	.3692-03	.4488-03	.2620	2.005	548.9
149	.60000	.40000	950.00	.7000-03	.6000-03	.7000-03	.1776-04	.1462-04	.1776-04	.1000-01	.8900-01	545.8
149	.60000	.60000	951.00	.6000-03	.5000-03	.6000-03	.1560-04	.1285-04	.1560-04	.9000-02	.8200-01	544.5
149	.60000	.85000	952.00	.7000-03	.6000-03	.7000-03	.1635-04	.1347-04	.1635-04	.1000-01	.7700-01	542.2
149	.60000	.95000	953.00	.3800-02	.3100-02	.3800-02	.9222-04	.7602-04	.9222-04	.5400-01	.6390	541.7
149	.70000	.20000	954.00	.1870-01	.1540-01	.1870-01	.4581-03	.3768-03	.4581-03	.2670	2.201	548.3

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AEDC VKF V41B-57A (CH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING (RV1U04)

RUN NUMBER	2Y/8	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(GTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QOOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
149	.70000	.40000	955.00	.1050-01	.8700-02	.1050-01	.2581-03	.2124-03	.2581-03	.1510	1.243	547.1
149	.70000	.90000	956.00	.1100-02	.9000-03	.1100-02	.2676-04	.2206-04	.2676-04	.1600-01	.1310	541.4
149	.75000	.10000+00	957.00	.6810-01	.5600-01	.6810-01	.1567-02	.1370-02	.1567-02	.9660	7.937	552.3
149	.75000	.20000	958.00	.3100-01	.2550-01	.3100-01	.7580-03	.6233-03	.7580-03	.4410	3.920	549.8
149	.75000	.40000	959.00	.9500-02	.7800-02	.9500-02	.2327-03	.1916-03	.2327-03	.1360	1.166	546.6
149	.75000	.60000	960.00	.7600-02	.6200-02	.7600-02	.1853-03	.1526-03	.1853-03	.1090	.9290	546.1
149	.75000	.90000	962.00	.1200-02	.1000-02	.1200-02	.2967-04	.2447-04	.2967-04	.1800-01	.1450	541.2
149	.80000	.90000	963.00	.1800-02	.1500-02	.1800-02	.4514-04	.3722-04	.4514-04	.2700-01	.2090	540.8
149	.90000	.20000	964.00	.2930-01	.2380-01	.2900-01	.7086-03	.5830-03	.7086-03	.4130	3.676	548.5
149	.90000	.40000	965.00	.1260-01	.1030-01	.1260-01	.3072-03	.2530-03	.3072-03	.1800	1.605	545.3
149	.95000	.40000	967.00	.1530-01	.1260-01	.1530-01	.3738-03	.3078-03	.3738-03	.2190	1.628	545.0
149	.95000	.80000	968.00	.2400-02	.2000-02	.2400-02	.5857-04	.4829-04	.5857-04	.3500-01	.2660	541.6

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U04)

## UPPER WING

## PARAMETRIC DATA

ALPHA = 30.00 BETA = -2.000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAH DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
94	7.980	2.012	30.07	2.000	202.0	429.7	4500-01	1286.	93.60	1.994	3784.	4008-04
95	7.980	2.009	30.09	2.000	202.0	431.0	4500-01	1290.	93.90	2.000	3789.	4009-04
96	7.980	2.020	30.07	2.000	202.0	434.1	4500-01	1291.	94.00	2.014	3791.	4033-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
94	7538-07	3462-01	0.0175
95	7560-07	3468-01	.2876-01
96	7569-07	3482-01	.2868-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
95	25000	.85000-01	938.00	.2900-02	.2400-02	.2900-02	.3969-04	.8267-04	.9969-04	.6200-01	.4660	534.4
95	25000	.13500	939.00	.1200-02	.1000-02	.1200-02	.4326-04	.3588-04	.4326-04	.2700-01	.1210	534.1
95	25000	.22500	940.00	.1400-02	.1100-02	.1400-02	.4754-04	.3942-04	.4754-04	.3000-01	.8300-01	534.7
95	40000	.50000-01	941.00	.1700-01	.1400-01	.1700-01	.5043-03	.5002-03	.6043-03	.3750	3.343	540.9
95	40000	.20000	942.00	.9200-02	.7600-02	.9200-02	.3176-03	.2631-03	.3176-03	.1980	1.471	538.6
95	40000	.40000	943.00	.8000-03	.7000-03	.8000-03	.2777-04	.2301-04	.2777-04	.1700-01	.1430	537.3
95	40000	.60000	944.00	.6000-03	.5000-03	.6000-03	.1978-04	.1640-04	.1978-04	.1200-01	.1260	535.4
95	40000	.95000	945.00	.1900-02	.1600-02	.1900-02	.5670-04	.5542-04	.6670-04	.4200-01	.3800	527.0
95	60000	.25000-01	946.00	.1303	.1050	.1303	.4518-02	.3675-02	.4518-02	.2540	50.07	598.6
95	60000	.50000-01	947.00	.1293	.1065	.1293	.4506-02	.3695-02	.4506-02	2.648	32.30	573.2
95	60000	.10000+00	948.00	.6370-01	.5260-01	.6370-01	.3209-02	.1825-02	.2209-02	1.351	12.01	549.2
95	60000	.20000	949.00	.2940-01	.1690-01	.2940-01	.7092-03	.5868-03	.7092-03	.4380	3.371	542.6
95	60000	.40000	950.00	.2500-02	.2100-02	.2500-02	.8630-04	.7148-04	.8630-04	.5400-01	.4610	538.8
95	60000	.60000	951.00	.1000-02	.9000-03	.1000-02	.3588-04	.2974-04	.3588-04	.2200-01	.2000	536.7
95	60000	.85000	952.00	.1600-02	.1300-02	.1600-02	.5632-04	.4675-04	.5632-04	.3500-01	.2840	530.9
95	60000	.95000	953.00	.5400-02	.4500-02	.5400-02	.1868-03	.1551-03	.1868-03	.1180	1.393	529.4
95	70000	.20000	954.00	.2340-01	.1940-01	.2340-01	.3120-03	.6717-03	.8120-03	.5010	4.135	543.7

(RV1U04)

DATE 25 AUG 76 AEDC VKF V41B-57A (OH-498) COLLATION DECK

OH-498 (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
95	.70000	.40000	955.00	.1100-01	.9100-02	.1100-01	.3815-03	.3158-03	.3815-03	.2360	1.954	541.0
95	.70000	.90000	955.00	.2700-02	.2200-02	.2700-02	.9249-04	.7677-04	.9249-04	.5800-01	.4840	530.6
95	.75000	.10000+00	957.00	.7520-01	.6200-01	.7520-01	.2508-02	.2152-02	.2508-02	1.588	13.05	552.0
95	.75000	.20000	958.00	.3950-01	.3260-01	.3950-01	.1370-02	.1132-02	.1370-02	.8410	7.480	547.1
95	.75000	.40000	959.00	.1490-01	.1230-01	.1490-01	.5176-03	.4283-03	.5176-03	.3200	2.746	542.2
95	.75000	.60000	960.00	.1120-01	.9300-02	.1120-01	.3975-03	.3268-03	.3975-03	.2400	2.064	540.4
95	.75000	.90000	962.00	.2200-02	.1800-02	.2200-02	.7626-04	.6330-04	.7626-04	.4800-01	.3990	531.2
95	.80000	.90000	963.00	.2700-02	.2200-02	.2700-02	.9385-04	.7789-04	.9385-04	.5900-01	.4650	531.4
95	.90000	.20000	964.00	.4650-01	.3850-01	.4650-01	.1616-02	.1336-02	.1616-02	.9920	8.821	547.4
95	.90000	.40000	965.00	.2130-01	.1760-01	.2130-01	.7379-03	.6108-03	.7379-03	.4570	4.080	541.2
95	.95000	.40000	967.00	.3100-01	.2550-01	.3100-01	.1075-02	.8992-03	.1075-02	.6650	4.943	542.0
95	.95000	.80000	968.00	.4300-02	.3500-02	.4300-02	.1464-03	.1231-03	.1464-03	.9300-01	.7190	533.5

DATE 25 AUG '66

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U04)

## PARAMETRIC DATA

ALPHA = 30.00 BETA = -2.000 ELEVTR = .0000 SPOBRK = .0000  
 BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.5 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
10	8.000	3.744	30.10	2.000	202.0	863.6	8800-01	1348.	97.70	3.963	3874.	.7600-04
11	8.000	3.738	30.08	2.000	202.0	863.0	.8800-01	1349.	97.70	3.960	3875.	.7589-04
12	8.000	3.737	30.09	2.000	202.0	862.9	.8800-01	1349.	97.70	3.960	3875.	.7588-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	ST FR R =
10	.7863-07	.4920-01	0.0175
11	.7868-07	.4919-01	.2099-01
12	.7869-07	.4919-01	.2101-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(TAW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TW DEG. R
11	.25000	.85000-01	938.00	.2300-02	.2000-02	.2300-02	.1154-03	.9607-04	.1154-03	.7800-01	.5760	541.9
11	.25000	.13500	939.00	.1400-02	.1100-02	.1400-02	.6641-04	.5530-04	.6641-04	.4500-01	.1990	542.4
11	.25000	.28500	940.00	.6000-03	.5000-03	.6000-03	.3030-04	.2522-04	.3030-04	.2000-01	.5700-01	543.4
11	.40000	.50000-01	941.00	.2650-01	.2200-01	.2650-01	.1304-02	.1081-02	.1304-02	.8540	7.555	558.6
11	.40000	.20000	942.00	.2160-01	.1800-01	.2160-01	.1054-02	.6836-03	.1054-02	.7020	5.185	554.3
11	.40000	.40000	943.00	.7000-03	.6000-03	.7000-03	.3566-04	.2964-04	.3566-04	.2400-01	.1950	549.5
11	.40000	.60000	944.00	.4000-03	.3000-03	.4000-03	.1993-04	.1634-04	.1993-04	.1300-01	.1340	549.1
11	.40000	.95000	945.00	.2900-02	.2400-02	.2900-02	.1429-03	.1189-03	.1429-03	.9500-01	.8500	545.7
11	.60000	.20000-01	946.00	.1273	.1031	.1273	.6263-02	.5073-02	.6263-02	3.599	69.54	639.2
11	.60000	.50000-01	947.00	.1314	.1077	.1314	.6465-02	.5296-02	.6465-02	3.952	47.51	602.4
11	.60000	.10000-00	948.00	.7250-01	.6000-01	.7250-01	.3567-02	.2932-02	.3567-02	2.309	20.35	566.4
11	.60000	.20000	949.00	.2680-01	.2220-01	.2680-01	.1318-02	.1094-02	.1318-02	.8660	6.610	556.9
11	.60000	.40000	950.00	.3400-02	.2800-02	.3400-02	.1853-03	.1374-03	.1853-03	.1100	.9370	550.3
11	.60000	.60000	951.00	.3100-02	.2600-02	.3100-02	.1529-03	.1271-03	.1529-03	.1020	.9020	549.8
11	.60000	.85000	952.00	.1300-02	.1100-02	.1300-02	.6393-04	.5318-04	.6393-04	.4300-01	.3390	546.1
11	.60000	.95000	953.00	.7200-02	.6000-02	.7200-02	.3532-03	.2938-03	.3532-03	.2360	2.758	546.9
11	.70000	.20000	954.00	.2980-01	.2470-01	.2980-01	.1467-02	.1216-02	.1467-02	.9610	7.873	558.4

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

(RV1U04)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

DATE 25 AUG 76

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
11	.70000	.40000	955.00	.2220-01	.1850-01	.2220-01	.1034-02	.9083-03	.1094-02	.7210	5.912	555.3
11	.70000	.90000	956.00	.2500-02	.2100-02	.2500-02	.1248-03	.1039-03	.1248-03	.8300-01	.6890	544.9
11	.75000	.10000-00	957.00	.1128	.9310-01	.1128	.5548-02	.4579-02	.5548-02	3.536	28.71	576.4
11	.75000	.20000	958.00	.5240-01	.4340-01	.5240-01	.2579-02	.2136-02	.2579-02	1.677	14.80	563.3
11	.75000	.40000	959.00	.1620-01	.1340-01	.1620-01	.7954-03	.6607-03	.7954-03	.5260	4.486	552.7
11	.75000	.60000	960.00	.1420-01	.1180-01	.1420-01	.6561-03	.5781-03	.6561-13	.4500	3.924	552.9
11	.75000	.90000	962.00	.2800-02	.2300-02	.2800-02	.1373-03	.1143-03	.1373-13	.9200-01	.7580	544.8
11	.80000	.90000	963.00	.4300-02	.3600-02	.4300-02	.2139-03	.1781-03	.2139-03	.1430	1.121	543.6
11	.90000	.20000	964.00	.9100-01	.7520-01	.9100-01	.4478-02	.3699-02	.4478-02	2.871	25.22	572.6
11	.90000	.40000	965.00	.5010-01	.4150-01	.5010-01	.2463-02	.2042-02	.2463-02	1.611	14.24	559.7
11	.95000	.40000	967.00	.6090-01	.5040-01	.6090-01	.2993-02	.2480-02	.2993-02	1.949	14.34	562.8
11	.95000	.80000	968.00	.5800-02	.4800-02	.5800-02	.2831-03	.2357-03	.2831-03	.1900	1.456	544.2

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U05)

UPPER WING

## PARAMETRIC DATA

ALPHA = 35.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
 BOFLAP = .0000 MACH = 8.0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
178	7.900	.5382	35.08	.0000	180.0	109.8	.1200-01	1270.	94.20	.5330	3757.	.1086-04
179	7.900	.5388	35.09	.0000	180.0	109.8	.1200-01	1269.	94.10	.5330	3756.	.1087-04
180	7.900	.5428	35.09	.0000	180.0	110.7	.1200-01	1270.	94.20	.5370	3757.	.1096-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R	ST FR R =
178	.7585-07	.1786-01	.5517-01	0.0175
179	.7580-07	.1786-01	.5515-01	
180	.7583-07	.1793-01	.5494-01	

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H:9TO) BTU/ R FT2SEC	H:TO) BTU/ R FT2SEC	H:ITAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
179	.25000	.85000-01	938.00	.3800-02	.3100-02	.3800-02	.6782-04	.5616-04	.6782-04	.4100-01	.3100	531.4
179	.25000	.13500	939.00	.1900-02	.1600-02	.1900-02	.3352-04	.2775-04	.3352-04	.2000-01	.9200-01	531.3
179	.25000	.22500	940.00	.9000-03	.8000-03	.9000-03	.1667-04	.1380-04	.1667-04	.1000-01	.2900-01	531.5
179	.40000	.50000-01	941.00	.1180-01	.9800-02	.1180-01	.2110-03	.1747-03	.2110-03	.1290	1.154	532.3
179	.40000	.20000	942.00	.5700-02	.4700-02	.5700-02	.371-04	.8444-04	.1031-03	.6200-01	.4640	533.7
179	.40000	.40000	943.00	.8000-03	.6000-03	.8000-03	.1041-04	.1135-04	.1371-04	.8000-02	.6900-01	534.5
179	.40000	.60000	944.00	.6000-03	.5000-03	.6000-03	.4494-04	.3725-04	.4494-04	.6000-02	.6500-01	533.2
179	.40000	.80000	945.00	.2500-02	.2100-02	.2500-02	.2104-02	.1731-02	.2104-02	.2800-01	.2480	527.7
179	.60000	.20000-01	946.00	.1113	.9180-01	.1113	.1987-02	.1639-02	.1987-02	1.237	24.93	554.2
179	.60000	.50000-01	947.00	.5130-01	.4200-01	.5130-01	.9155-03	.7572-03	.9155-03	1.188	14.69	544.7
179	.60000	.10000+00	948.00	.1750-01	.1400-01	.1750-01	.3118-03	.2579-03	.3118-03	.5560	4.973	535.4
179	.60000	.20000	949.00	.2100-02	.1700-02	.2100-02	.3718-04	.3076-04	.3718-04	.1900	1.463	534.5
179	.60000	.40000	950.00	.1200-02	.1000-02	.1200-02	.2223-04	.1842-04	.2223-04	.2300-01	.1950	533.7
179	.60000	.80000	951.00	.5100-02	.4200-02	.5100-02	.9045-04	.7501-04	.9045-04	.1400-01	.1100	527.8
179	.70000	.95000	952.00	.1630-01	.1350-01	.1630-01	.2903-03	.2403-03	.2903-03	.5600-01	.6800	525.7
179	.70000	.20000	953.00	.8500-02	.6600-02	.8500-02	.1433-03	.1186-03	.1433-03	.1770	1.469	532.5
179	.70000	.40000	954.00							.2700-01	.7250	532.6



(RV1U05)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9T0) BTU/ R FT2SEC	H(T0) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DTWOT DEC. R /SEC	TH DEC. R
179	.70000	.90000	955.00	3100-02	.2500-02	.3100-02	.5460-04	.4530-04	.5460-04	.3400-01	.2810	524.3
179	.75000	.10000+00	957.00	5270-01	.4370-01	.5270-01	.9417-03	.7801-03	.9417-03	.5770	4.794	529.8
179	.75000	.20000	958.00	.2370-01	.1960-01	.2370-01	.4231-03	.3503-03	.4231-03	.2590	2.320	531.0
179	.75000	.40000	959.00	.7600-02	.6300-02	.7600-02	.1352-03	.120-03	.1352-03	.8300-01	.7120	531.7
179	.75000	.60000	960.00	.4600-02	.3900-02	.4600-02	.8507-04	.7045-04	.8507-04	.5200-01	.4490	530.7
179	.75000	.90000	962.00	.3300-02	.2700-02	.3300-02	.5938-04	.4686-04	.5938-04	.3600-01	.3040	533.9
179	.80000	.90000	963.00	.3600-02	.3000-02	.3600-02	.6459-04	.5360-04	.6459-04	.4000-01	.3160	523.5
179	.90000	.20000	964.00	.1670-01	.1380-01	.1670-01	.2980-03	.2470-03	.2980-03	.1830	1.647	527.4
179	.90000	.40000	965.00	.7100-02	.5900-02	.7100-02	.1266-03	.1049-03	.1266-03	.7800-01	.7000	527.2
179	.95000	.40000	967.00	.1370-01	.1140-01	.1370-01	.2447-03	.2029-03	.2447-03	.1510	1.130	526.1
179	.95000	.80000	968.00	.3500-02	.2900-02	.3500-02	.6173-04	.5122-04	.6173-04	.3800-01	.2960	523.7

REPRODUCIBILITY OF THE  
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AEDC VKF V418-57A (OH-49B) COLLATION DECK

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(RV1U05)

OH-49B (AEDC V418-57A) ORBITER UPPER WING

UPPER WING

## PARAMETRIC DATA

ALPHA = 35.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAH DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
151	7.940	1.049	35.08	.0000	180.0	211.9	.2300-01	1250.	91.90	1.006	3729.	.2081-04
152	7.940	1.043	35.09	.0000	180.0	211.7	.2300-01	1254.	92.20	1.005	3735.	.2072-04
153	7.940	1.029	35.09	.0000	180.0	210.3	.2300-01	1260.	92.60	.9980	3744.	.2049-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
151	.7335-07	.2446-01	0.0175
152	.7421-07	.2446-01	.3980-01
153	.7456-07	.2440-01	.4014-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	1/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(STO) BTU/ R FT <sup>2</sup> SEC	H(TO) BTU/ R FT <sup>2</sup> SEC	H(TAH) BTU/ R FT <sup>2</sup> SEC	QOOT BTU/ FT <sup>2</sup> SEC	OT/OT DEG. R /SEC	TH DEG. R
152	.25000	.85000-01	938.00	.3000-02	.2500-02	.3000-02	.7452-04	.6138-04	.7452-04	.4400-01	.3250	542.8
152	.25000	.13500	939.00	.1700-02	.1400-02	.1700-02	.4265-04	.3514-04	.4265-04	.2500-01	.1120	542.3
152	.25000	.22500	940.00	.2700-02	.2300-02	.2700-02	.6685-04	.5506-04	.6685-04	.3900-01	.1090	543.2
152	.40000	.50000-01	941.00	.1370-01	.1130-01	.1370-01	.3755-03	.2753-03	.3355-03	.1950	1.733	548.0
152	.40000	.20000	942.00	.6700-02	.5000-02	.6700-02	.1628-03	.1339-03	.1628-03	.9500-01	.7010	547.9
152	.40000	.40000	943.00	.6000-03	.5000-03	.6000-03	.1555-04	.1279-04	.1555-04	.9000-02	.7500-01	547.1
152	.40000	.60000	944.00	.8000-03	.6000-03	.8000-03	.1876-04	.1544-04	.1876-04	.1100-01	.1110	546.3
152	.40000	.95000	945.00	.1400-02	.1200-02	.1400-02	.3475-04	.2863-04	.3475-04	.2000-01	.1820	542.0
152	.60000	.25000-01	945.00	.1189	.9620-01	.1189	.2908-02	.2367-02	.2908-02	1.596	31.74	581.3
152	.60000	.50000-01	947.00	.1132	.9250-01	.1132	.2769-02	.2265-02	.2769-02	1.563	19.14	564.6
152	.60000	.10000+00	948.00	.5440-01	.4470-01	.5440-01	.1332-02	.1093-02	.1332-02	.7660	6.796	553.5
152	.60000	.20000	949.00	.2020-01	.1660-01	.2020-01	.4935-03	.4058-03	.4935-03	.2860	2.188	550.1
152	.60000	.40000	950.00	.2000-03	.2000-03	.2000-03	.4927-05	.4053-05	.4927-05	.3000-02	.2500-01	547.6
152	.60000	.60000	951.00	.1200-02	.1000-02	.1200-02	.2911-04	.2431-04	.2954-04	.1700-01	.1530	546.3
152	.60000	.80000	952.00	.8000-03	.7000-03	.8000-03	.2008-04	.1654-04	.2008-04	.1200-01	.9400-01	543.3
152	.60000	.95000	953.00	.5100-02	.4200-02	.5100-02	.1247-03	.1027-03	.1247-03	.7300-01	.8580	542.5
152	.70000	.20000	954.00	.1820-01	.1500-01	.1820-01	.4457-03	.3664-03	.4457-03	.2580	2.125	549.6

RUN NUMBER	2V/B	X/C	T/C NO	OH-49B (AEDC V41B-57A) ORBITER UPPER WING										(RV1U05)	
				H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO) BTU/ R FT2SEC	H1TO) BTU/ R FT2SEC	H1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R			
152	70000	40000	955.00	.8900-02	.7500-02	.8900-02	.2188-03	.1799-03	.2188-03	.1270	1.045	548.7			
152	70000	90000	956.00	.1400-02	.1200-02	.1400-02	.3513-04	.2895-04	.3513-04	.2100-01	.1700	541.9			
152	75000	10000+00	957.00	.5480-01	.4500-01	.5480-01	.1741-02	.1101-02	.1341-02	.7720	6.342	553.3			
152	75000	20000	958.00	.3460-01	.2840-01	.3460-01	.8466-03	.6957-03	.8466-03	.4900	4.351	550.3			
152	75000	40000	959.00	.7600-02	.6200-02	.7600-02	.1857-03	.1527-03	.1857-03	.1080	.9210	548.6			
152	75000	50000	960.00	.1900-02	.1500-02	.1900-02	.4608-04	.3791-04	.4608-04	.2700-01	.2300	546.6			
152	75000	60000	962.00	.2200-02	.1800-02	.2200-02	.5389-04	.4440-04	.5389-04	.3200-01	.2610	541.7			
152	80000	90000	963.00	.3300-02	.2700-02	.3300-02	.8084-04	.6662-04	.8084-04	.4700-01	.3720	541.4			
152	90000	20000	964.00	.2600-01	.2170-01	.2640-01	.6449-03	.5300-03	.6449-03	.3730	3.317	550.0			
152	90000	40000	965.00	.1420-01	.1170-01	.1420-01	.3484-03	.2866-03	.3484-03	.2030	1.806	546.6			
152	95000	40000	967.00	.1830-01	.1510-01	.1830-01	.4480-03	.3686-03	.4480-03	.2610	1.936	546.4			
152	95000	80000	968.00	.3000-02	.2500-02	.3000-02	.7319-04	.6030-04	.7319-04	.4300-01	.3300	542.0			

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKI V41B-57A (OH-49B) COLLATION DEC'

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

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(RV1U05)

## UPPER WING

## PARAMETRIC DATA

ALPHA = 35.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
127	7.970	35.09	.0000	180.0	320.3	.3400-01	1286.	93.80	1.455	3783.	.3007-04
128	7.970	35.07	.0000	180.0	323.0	.3400-01	1291.	94.20	1.508	3791.	.3019-04
129	7.970	35.05	.0000	180.0	320.0	.3400-01	1292.	94.30	1.494	3792.	.2989-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
127	.7553-07	.2997-01	0.0175
128	.7587-07	.3012-01	.3321-01
129	.7592-07	.2998-01	.3316-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(10) BTU/ R FT <sup>2</sup> SEC	H(11A) BTU/ R FT <sup>2</sup> SEC	COOT BTU/ R FT <sup>2</sup> SEC	DT/DT DEG. R /SEC	TW DEG. R
128	.25000	.85000-01	938.00	.3200-02	.2500-02	.3200-02	.9489-04	.7853-04	.9489-04	.5900-01	.4370	542.5
128	.25000	.13500	939.00	.1400-02	.1100-02	.1400-02	.4096-04	.3389-04	.4096-04	.2500-01	.1130	542.4
128	.25000	.22500	940.00	.1000-02	.8000-03	.1000-02	.3000-04	.2483-04	.3000-04	.1900-01	.5200-01	542.7
128	.40000	.50000-01	941.00	.1610-01	.1330-01	.1610-01	.4843-03	.4001-03	.4843-03	.2970	2.641	548.8
128	.40000	.20000	942.00	.9700-02	.8000-02	.9700-02	.2916-03	.2409-03	.2916-03	.1790	1.328	547.7
128	.40000	.40000	943.00	.7000-03	.6000-03	.7000-03	.2225-04	.1839-04	.2225-04	.1400-01	.1130	546.2
128	.40000	.60000	944.00	.6000-03	.5000-03	.6000-03	.1943-04	.1607-04	.1943-04	.1200-01	.1210	545.2
128	.40000	.95000	945.00	.1800-02	.1500-02	.1800-02	.5308-04	.4394-04	.5308-04	.3300-01	.2940	541.3
128	.60000	.25000-01	946.00	.1203	.9220-01	.1203	.3623-02	.2958-02	.3623-02	2.079	41.19	588.4
128	.60000	.50000-01	947.00	.1137	.9340-01	.1137	.3425-02	.2813-02	.3425-02	2.033	24.85	568.7
128	.60000	.10000-00	948.00	.5530-01	.4640-01	.5530-01	.1694-02	.1398-02	.1694-02	1.031	9.147	553.6
128	.60000	.20000	949.00	.2270-01	.1880-01	.2270-01	.6844-03	.5652-03	.6844-03	.4190	3.211	549.7
128	.60000	.40000	950.00	.2600-02	.2100-02	.2600-02	.7803-04	.6451-04	.7803-04	.4800-01	.4120	546.1
128	.60000	.60000	951.00	.1700-02	.1400-02	.1700-02	.5131-04	.4243-04	.5131-04	.3200-01	.2820	545.1
128	.60000	.85000	952.00	.1700-02	.1400-02	.1700-02	.5103-04	.4223-04	.5103-04	.3200-01	.2520	542.4
128	.60000	.95000	953.00	.5000-02	.4200-02	.5000-02	.1511-03	.1251-03	.1511-03	.9400-01	1.100	541.8
128	.70000	.20000	954.00	.2160-01	.1790-01	.2160-01	.6519-03	.5384-03	.6519-03	.4000	3.289	549.3

(RV1U05)

## AEDC VKF V41B-57A (OH-49B) COLLATION DECK

DATE 25 AUG 76

## OH-49B (A DC V41B-57A) ORBITTER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=C.9	H/HREF R=1.0	H/HREF (TAW)	H(OTO) BTU/ R FT2SEC	H(OTO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QOOT BTU/ FT2SEC	DTMO/ DEG. R /SEC	TW DEG. R
123	.70000	.40000	955.00	.1030-01	.0500-02	.1030-01	.3111-03	.2571-03	.3111-03	.1910	1.576	547.3
128	.70000	.90000	956.00	.2700-02	.2200-02	.2700-02	.8094-04	.8094-04	.8094-04	.5000-01	.4160	541.0
128	.75000	.10000+00	957.00	.6510-01	.5370-01	.6510-01	.1561-02	.1561-02	.1561-02	1.192	9.785	534.4
128	.75000	.20000	958.00	.3870-01	.3190-01	.3870-01	.1165-02	.1165-02	.1165-02	.7130	6.328	550.8
128	.75000	.40000	959.00	.1260-01	.1050-01	.1260-01	.3809-03	.3148-03	.3809-03	.2340	2.006	546.9
128	.75000	.60000	960.00	.3100-02	.2600-02	.3100-02	.9315-04	.7702-04	.9315-04	.5700-01	.4920	545.7
128	.75000	.90000	962.00	.2600-02	.2200-02	.2600-02	.7929-04	.6565-04	.7929-04	.4900-01	.4070	540.8
128	.80000	.90000	963.00	.3200-02	.2600-02	.3200-02	.9542-04	.7901-04	.9542-04	.5900-01	.4650	540.6
128	.90000	.20000	964.00	.3620-01	.2990-01	.3620-01	.1089-02	.8999-03	.1089-02	.6680	5.935	549.4
128	.90000	.40000	965.00	.2120-01	.1750-01	.2120-01	.6393-03	.5285-03	.6393-03	.3940	3.509	545.9
128	.95000	.40000	967.00	.3540-01	.3010-01	.3640-01	.1098-02	.9070-03	.1098-02	.6740	4.998	47.9
128	.95000	.80000	968.00	.3000-02	.2500-02	.3000-02	.9137-04	.7565-04	.9137-04	.5700-01	.4370	543.9

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER UPPER WING

(RV1U05)

## UPPER WING

## PARAMETRIC DATA

ALPHA = 35.03 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
97	7.980	35.11	.0000	180.0	431.9	4500-01	1293.	94.10	2.004	3793.	.4008-04
98	7.980	35.10	.0000	180.0	433.5	4500-01	1293.	94.20	2.012	3794.	.4021-04
99	7.980	35.11	.0000	180.0	433.3	4500-01	1293.	94.10	2.011	3794.	.4020-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	REF BTU/ R FT <sup>2</sup> SEC	ST FF R =
97	.7576-07	.3473-01	0.0175
98	.7580-07	.3480-01	.2878-01
99	.7579-07	.3479-01	.2873-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H/STO BTU/ R FT <sup>2</sup> SEC	H/TO BTU/ R FT <sup>2</sup> SEC	H/TAW BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTWDT DEG. R /SEC	TW DEG. R
98	.25000	.85000-01	938.00	.2900-02	.2400-02	.2900-02	.1021-03	.8466-04	.1021-03	.6400-01	.4780	535.7
98	.25000	.13500	939.00	.1100-02	.9000-03	.1100-02	.3787-04	.3141-04	.3787-04	.2400-01	.1070	535.3
98	.25000	.22500	940.00	.2000-02	.1700-02	.2000-02	.7043-04	.5840-04	.7043-04	.4400-01	.1240	536.0
98	.40000	.50000-01	941.00	.2850-01	.1850-01	.2850-01	.7829-03	.6479-03	.7829-03	.4860	4.329	543.5
98	.40000	.20000	942.00	.1050-01	.8700-02	.1050-01	.3578-03	.3045-03	.3578-03	.2290	1.702	541.5
98	.40000	.40000	943.00	.8000-03	.7000-03	.8000-03	.2851-04	.2361-04	.2851-04	.1800-01	.1470	540.3
98	.40000	.60000	944.00	.6000-03	.5000-03	.6000-03	.2105-04	.1744-04	.2105-04	.1300-01	.1340	538.4
98	.60000	.95000	945.00	.2600-02	.2100-02	.2600-02	.8932-04	.7438-04	.8932-04	.5700-01	.5110	530.5
98	.60000	.25000-01	946.00	.1170	.9550-01	.1170	.4073-02	.3323-02	.4073-02	2.336	46.24	590.3
98	.60000	.50000-01	947.00	.1145	.9410-01	.1145	.3986-02	.3274-02	.3986-02	2.371	28.98	569.1
98	.60000	.10000-00	948.00	.6240-01	.5150-01	.6240-01	.2172-02	.1793-02	.2172-02	1.330	11.81	551.5
98	.60000	.20000	949.00	.2620-01	.2170-01	.2620-01	.9119-03	.7539-03	.9119-03	.5630	4.318	546.7
98	.60000	.40000	950.00	.2000-02	.2400-02	.2000-02	.1013-03	.8386-04	.1013-03	.6300-01	.5400	541.9
98	.60000	.60000	951.00	.2000-02	.1800-02	.2000-02	.7612-04	.6303-04	.7612-04	.4700-01	.4230	541.5
98	.60000	.85000	952.00	.2500-02	.2100-02	.2500-02	.8614-04	.7144-04	.8614-04	.5400-01	.4330	535.2
98	.60000	.95000	953.00	.7700-02	.6400-02	.7700-02	.2683-03	.2226-03	.2683-03	.1690	1.994	533.4
98	.70000	.20000	954.00	.2520-01	.2080-01	.2520-01	.8754-03	.7235-03	.8754-03	.5390	4.440	548.0

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OH-498 (AEDC V41B-57A) ORBITER UPPER WING

(RV1U05)

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
98	.70000	.40000	955.00	.1290-01	.1070-01	.1290-01	.4497-03	.3719-03	.4497-03	.2780	2.294	545.3
98	.70000	.90000	956.00	.3900-02	.3300-02	.3900-02	.1366-03	.1134-03	.1366-03	.8600-01	.7130	534.3
98	.75000	.10000+00	957.00	.9040-01	.7460-01	.9040-01	.3146-02	.2595-02	.3146-02	1.915	15.71	555.3
98	.75000	.20000	958.00	.4650-01	.3840-01	.4650-01	.1617-02	.1335-02	.1617-02	.9910	8.805	550.8
98	.75000	.40000	959.00	.1980-01	.1630-01	.1980-01	.6877-03	.5685-03	.6877-03	.4240	3.627	547.3
98	.75000	.60000	960.00	.1320-01	.1090-01	.1320-01	.4606-03	.3810-03	.4606-03	.2850	2.440	545.4
98	.75000	.90000	962.00	.3500-02	.2900-02	.3500-02	.1204-03	.9989-04	.1204-03	.7600-01	.6280	534.6
98	.80000	.90000	963.00	.3400-02	.2800-02	.3400-02	.1176-03	.9754-04	.1176-03	.7400-01	.5810	535.1
98	.90000	.20000	964.00	.5350-01	.4410-01	.5350-01	.1861-02	.1536-02	.1861-02	1.139	10.11	552.0
98	.90000	.40000	965.00	.2950-01	.2440-01	.2950-01	.1025-02	.8477-03	.1025-02	.6330	5.638	545.2
98	.95000	.40000	967.00	.4470-01	.3690-01	.4470-01	.1555-02	.1286-02	.1555-02	.9590	7.106	547.6
98	.95000	.80000	968.00	.3800-02	.3200-02	.3800-02	.1334-03	.1106-03	.1334-03	.8460-01	.6450	537.1

AEDC VKF V41B 57A (OH-498) COLLATION DECK

OH-498 (AEDC V41B-57A) ORBITER UPPER WING

UPPER WING

PARAMETRIC DATA

ALPHA = 35.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
76	7.990	35.10	.0000	180.0	544.5	.5600-01	1297.	94.20	2.513	3801.	.5006-04
77	7.990	35.09	.0000	180.0	545.9	.5600-01	1302.	94.60	2.519	3807.	.5001-04
78	7.990	35.08	.0000	180.0	547.4	.5700-01	1307.	94.90	2.526	3814.	.4997-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
76	.7587-07	.3892-01	.0.0175	
77	.7614-07	.3899-01	.2576-01	
78	.7641-07	.3907-01	.2580-01	

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(1TO) BTU/ R FT <sup>2</sup> SEC	H(TAM) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TW DEG. R
77	.25000	.85000-01	938.00	.3000-02	.2500-02	.3000-02	.1169-03	.9695-04	.1169-03	.7400-01	.5510	538.8
77	.25000	.13500	939.00	.1100-02	.9000-03	.1100-02	.4219-04	.3499-04	.2719-04	.2700-01	.1190	538.4
77	.25000	.22500	940.00	.7000-03	.6000-03	.7000-03	.2744-04	.2276-04	.2744-04	.1700-01	.4800-01	538.9
77	.40000	.50000-01	941.00	.2730-01	.2250-01	.2730-01	.1063-02	.8787-03	.1063-02	.6610	5.877	549.5
77	.40000	.20000	942.00	.1910-01	.1580-01	.1910-01	.7453-03	.6169-03	.7453-03	.4660	3.458	546.4
77	.40000	.40000	943.00	.9000-03	.7000-03	.9000-03	.3376-04	.2797-04	.3376-04	.2100-01	.2080	543.8
77	.40000	.60000	944.00	.8000-03	.7000-03	.8000-03	.3263-04	.2797-04	.3263-04	.2100-01	.2080	542.4
77	.40000	.95000	945.00	.3000-02	.2500-02	.3000-02	.1175-03	.9757-04	.1175-03	.7500-01	.6700	534.9
77	.60000	.25000-01	946.00	.1154	.9400-01	.1154	.4520-02	.3667-02	.4520-02	2.578	50.81	599.0
77	.60000	.50000-01	947.00	.1160	.9520-01	.1160	.4525-02	.3713-02	.4525-02	2.696	32.84	576.0
77	.60000	.10000-00	948.00	.6110-01	.5050-01	.6110-01	.2384-02	.1968-02	.2384-02	1.467	13.00	556.4
77	.60000	.20000	949.00	.2810-01	.2320-01	.2810-01	.1095-02	.9048-03	.1095-02	.6790	5.201	551.2
77	.60000	.40000	950.00	.3900-02	.3200-02	.3900-02	.1531-03	.1267-03	.1531-03	.9600-01	.8200	546.0
77	.60000	.60000	951.00	.2300-02	.1900-02	.2300-02	.8999-04	.7453-04	.8999-04	.5600-01	.5030	544.3
77	.60000	.85000	952.00	.1200-02	.1000-02	.1200-02	.4487-04	.3722-04	.4487-04	.2800-01	.2270	538.3
77	.60000	.95000	953.00	.7100-02	.5900-02	.7100-02	.2766-03	.2295-03	.2766-03	.1750	2.064	537.6
77	.70000	.20000	954.00	.2670-01	.2200-01	.2670-01	.1040-02	.8596-03	.1040-02	.6450	5.303	551.7

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AEDC VKF V418-57A (OH-49B) COLLATION DECK

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(RV1U05)

OH-49B (AEDC V418-57A) ORBITER UPPER WING

RLN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H (TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
77	.70000	.40000	955.00	.2260-01	.1870-01	.2260-01	.8799-03	.7275-03	.8799-03	.5470	4.500	550.2
77	.70000	.90000	956.00	.4300-02	.3603-02	.4300-02	.1682-03	.1395-03	.1682-03	.1070	.8810	538.6
77	.75000	.10000+00	957.00	.1020	.8410-01	.1020	.3977-02	.3278-02	.3977-02	2.428	19.86	561.5
77	.75000	.20000	958.00	.5370-01	.4440-01	.5370-01	.2095-02	.130-02	.2095-02	1.291	11.44	555.6
77	.75000	.40000	959.00	.1610-01	.1330-01	.1610-01	.6259-03	.5177-03	.6259-03	.3900	3.334	548.9
77	.75000	.60000	960.00	.1340-01	.1110-01	.1340-01	.5229-03	.4326-03	.5229-03	.3260	2.790	548.1
77	.75000	.90000	962.00	.2900-02	.2400-02	.2900-02	.1147-03	.9513-04	.1147-03	.7300-01	.6010	538.6
77	.80000	.90000	963.00	.4000-02	.3400-02	.4000-02	.1577-03	.1308-03	.1577-03	1.000+00	.7830	538.7
77	.90000	.20000	964.00	.8020-01	.6610-01	.8020-01	.3126-02	.2578-02	.3126-02	1.915	16.93	559.4
77	.90000	.40000	965.00	.4120-01	.3410-01	.4120-01	.607-02	.1328-02	.1607-02	.9980	8.862	550.9
77	.95000	.40000	967.00	.5270-01	.4360-01	.5270-01	.2055-02	.1698-02	.2055-02	1.272	9.402	553.1
77	.95000	.80000	968.00	.5000-02	.4100-02	.5000-02	.1934-03	.1603-03	.1934-03	.1220	.9400	540.4

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U05)

## PARAMETRIC DATA

ALPHA = 35.00 BETA = .0000 ELEVTR = .0000 SPDRK = .0000  
BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	PN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
55	7.990	2.964	35.09	.0000	180.0	674.0	.7000-01	1338.	97.20	3.110	3859.	.6009-04
56	7.990	2.989	35.10	.0000	180.0	678.5	.7000-01	1336.	97.10	3.131	3857.	.6056-04
57	7.990	2.910	35.10	.0000	180.0	677.5	.7000-01	1359.	98.70	3.126	3890.	.5946-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
55	.7824-07	.4353-01	0.0175
56	.7815-07	.4367-01	.2349-01
57	.7947-07	.4376-01	.2375-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
56	.25000	.85000-01	938.00	.2900-02	.2400-02	.2900-02	.1278-03	.1064-03	.1278-03	.8500-01	.6350	536.5
56	.25000	.13500	939.00	.1300-02	.1100-02	.1300-02	.5563-04	.4634-04	.5563-04	.3700-01	.1660	535.8
56	.25010	.22500	940.00	.1100-02	.9000-03	.1100-02	.4717-04	.3929-04	.4717-04	.3100-01	.8800-01	535.9
56	.40000	.50000-01	941.00	.9200-02	.7700-02	.9200-02	.4021-03	.3347-03	.4021-03	.2670	2.386	538.7
56	.40000	.20000	942.00	.2400-02	.2000-02	.2400-02	.1030-03	.8579-04	.1030-03	.6900-01	.5110	537.0
56	.40000	.40000	943.00	.1100-02	.9000-03	.1100-02	.4925-04	.4102-04	.4925-04	.3300-01	.2720	536.8
56	.40000	.60000	944.00	.4000-03	.4000-03	.4000-03	.1925-04	.1603-04	.1925-04	.1300-01	.1300	536.7
56	.40000	.95000	945.00	.4500-02	.3700-02	.4500-02	.1944-03	.1619-03	.1944-03	.1290	1.156	537.6
56	.60000	.25000-01	946.00	.1161	.9510-01	.1161	.5071-02	.4153-02	.5071-02	3.068	60.49	597.7
56	.60000	.50000-01	947.00	.1072	.8650-01	.1072	.4679-02	.3864-02	.4679-02	2.963	36.20	569.6
56	.60000	.10000+00	948.00	.4480-01	.3720-01	.4480-01	.1955-02	.1625-02	.1955-02	1.284	11.43	546.1
56	.60000	.20000	949.00	.1260-01	.1050-01	.1260-01	.5498-03	.4576-03	.5498-03	.3650	2.809	539.4
56	.60000	.40000	950.00	.1500-02	.1300-02	.1500-02	.6570-04	.5472-04	.6570-04	.4400-01	.3760	536.8
56	.60000	.60000	951.00	.1000-02	.8000-03	.1000-02	.4186-04	.3487-04	.4186-04	.2800-01	.2500	536.5
56	.60000	.85000	952.00	.2100-02	.1700-02	.2100-02	.9156-04	.7626-04	.9156-04	.6100-01	.4870	537.0
56	.60000	.95000	953.00	.9700-02	.8000-02	.9700-02	.4222-03	.3515-03	.4222-03	.2800	3.297	538.7
56	.70000	.20000	954.00	.1260-01	.1050-01	.1260-01	.5489-03	.4568-03	.5489-03	.3640	3.011	539.5

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OH-498 (AEDC V41B-57A) ORBITER UPPER WING

(RV1U05)

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(GTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
56	.70000	.40000	955.00	.2800-02	.2300-02	.2800-02	.1201-03	.1000-03	.1201-03	.8000-01	.6620	537.5
56	.70000	.90000	956.00	.2400-02	.2000-02	.2400-02	.1046-03	.8708-04	.1046-03	.7000-01	.5770	536.7
56	.75000	.10000+00	957.00	.3950-01	.3310-01	.3930-01	.1735-02	.1443-02	.1735-02	1.144	9.438	543.9
56	.75000	.20000	958.00	.1750-01	.1460-01	.1730-01	.7648-03	.6363-03	.7648-03	.5060	4.519	540.7
56	.75000	.40000	959.00	.5600-02	.4700-02	.5600-02	.2467-03	.2054-03	.2467-03	.1640	1.410	537.7
56	.75000	.60000	960.00	.1900-02	.1500-02	.1800-02	.7659-04	.6379-04	.7659-04	.5100-01	.4390	536.6
56	.75000	.80000	961.00	.3200-02	.2700-02	.3200-02	.1412-03	.1175-03	.1412-03	.9400-01	.7780	536.9
56	.80000	.90000	962.00	.7400-02	.6200-02	.7400-02	.3247-03	.2704-03	.3247-03	.2160	1.695	537.3
56	.90000	.20000	963.00	.9200-02	.7600-02	.9200-02	.3996-03	.3327-03	.3996-03	.2660	2.373	538.3
56	.90000	.40000	964.00	.2400-02	.2000-02	.2400-02	.8729-04	.8729-04	.1048-03	.7000-01	.6240	536.6
56	.95000	.60000	965.00	.6400-02	.5300-02	.6400-02	.2800-03	.2332-03	.2800-03	.1860	1.390	536.8
56	.95000	.80000	966.00	.3500-02	.2900-02	.3500-02	.1515-03	.1262-03	.1515-03	.1010	.7780	536.5

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1005)

## PARAMETRIC DATA

ALPHA = 35.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.5 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	R40 SLUGS /FT3
37	8.000	3.351	35.13	.0000	180.0	760.0	.7800-01	1333.	96.60	3.487	3852.	.6763-04
38	8.000	3.325	35.08	.0000	130.0	759.7	.7800-01	1339.	97.00	3.486	3862.	.6728-04
39	8.000	3.320	35.08	.0000	180.0	759.7	.7800-01	1341.	97.10	3.486	3864.	.6721-04

RUN NUMBER	MU	HREF BTU/ R FT2	ST FR R =
37	.7775-07	.4606-01	0.0175
38	.7813-07	.4609-01	.2222-01
39	.7821-07	.4610-01	.2231-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(1TAM) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TH DEG. R
38	.25000	.13500	939.00	.1200-02	.1000-02	.1200-02	.5624-04	.4676-04	.5624-04	.3700-01	.1660	544.4
38	.25000	.22500	940.00	.7000-03	.6000-03	.7000-03	.3330-04	.2769-04	.3330-04	.2200-01	.6100-01	544.4
38	.40000	.50000-01	941.00	.3230-01	.2670-01	.3230-01	.1488-02	.1232-02	.1488-02	.9590	8.470	561.0
38	.40000	.20000	942.00	.3360-01	.2790-01	.3360-01	.1550-02	.1284-02	.1550-02	1.005	7.420	556.3
38	.40000	.40000	943.00	.9000-03	.8000-03	.9000-03	.4328-04	.3593-04	.4328-04	.2800-01	.2330	549.9
38	.40000	.60000	944.00	.6000-03	.5000-03	.6000-03	.2623-04	.2177-04	.2623-04	.1700-01	.1730	550.7
38	.40000	.95000	945.00	.2900-02	.2400-02	.2900-02	.1352-03	.1123-03	.1352-03	.8900-01	.7890	548.9
38	.60000	.25000-01	946.00	.1161	.9470-0.	.1161	.5352-02	.4364-02	.5352-02	3.165	61.91	613.5
38	.60000	.50000-01	947.00	.1087	.8940-01	.1087	.5012-02	.4122-02	.5012-02	3.111	37.73	584.5
38	.60000	.10000+00	948.00	.4880-01	.4040-01	.4880-01	.2248-02	.1862-02	.2248-02	1.452	12.84	559.4
38	.60000	.20000	949.00	.1420-01	.1170-01	.1420-01	.6524-03	.5414-03	.6524-03	.4250	3.258	552.5
38	.60000	.40000	950.00	.1400-02	.1100-02	.1400-02	.6334-04	.5258-04	.6334-04	.4100-01	.3540	550.6
38	.60000	.60000	951.00	.9000-03	.7000-03	.9000-03	.4087-04	.3393-04	.4087-04	.2700-01	.2380	550.1
39	.60000	.85000	952.00	.1200-02	.1000-02	.1200-02	.5424-04	.4506-04	.5424-04	.3600-01	.2830	548.0
38	.60000	.95000	953.00	.9300-02	.7700-02	.9300-02	.4274-03	.3550-03	.4274-03	.2810	3.281	548.9
38	.70000	.20000	954.00	.2950-01	.2450-01	.2950-01	.1361-02	.1129-02	.1361-02	.8850	7.258	555.3
38	.70000	.40000	955.00	.1560-01	.1290-01	.1560-01	.7182-03	.5960-03	.7182-03	.4690	3.855	552.1

(RV1005)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

DATE 25 AUG 76

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(90) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(TAW) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWOT DEG. R /SEC	TW DEG. R
38	.70000	.90000	955.00	.4300-02	.3500-02	.4300-02	.1989-03	.1653-03	.1989-03	.1310	1.079	546.7
38	.75000	.16000+00	957.00	.8050-01	.6650-01	.8050-01	.3710-02	.3069-02	.3710-02	2.380	19.44	563.9
38	.75000	.20000	958.00	.5930-01	.4910-01	.5930-01	.2734-02	.2264-02	.2734-02	1.765	15.60	559.8
38	.75000	.40000	959.00	.1580-01	.1310-01	.1580-01	.7292-03	.6053-03	.7292-03	.4770	4.072	551.1
38	.75000	.60000	960.00	.1340-01	.1110-01	.1340-01	.6185-03	.5133-03	.6185-03	.4040	3.450	551.7
38	.75000	.90000	962.00	.4400-02	.3700-02	.4400-02	.2050-03	.1704-03	.2050-03	.1350	1.115	545.8
38	.80000	.90000	963.00	.4300-02	.3600-02	.4300-02	.2050-03	.1685-03	.2050-03	.1320	1.034	544.4
38	.90000	.20000	964.00	.1310	.1079	.1310	.6038-02	.4975-02	.6038-02	3.783	33.13	578.7
38	.90000	.40000	965.00	.7610-01	.6300-01	.7610-01	.3507-02	.2901-02	.3507-02	2.251	19.86	563.4
38	.95000	.40000	967.00	.8600-01	.7120-01	.8600-01	.3964-02	.3280-02	.3964-02	2.547	18.74	562.6
38	.95000	.80000	968.00	.5600-02	.4700-02	.5600-02	.2579-03	.2144-03	.2579-03	.1700	1.309	544.2

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER UPPER WING

(RV1U05)

UPPER WING

PARAMETRIC DATA

ALPHA = 35.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PH1 MODEL DEG.	PO PSIA	P PSIA	IO DEG. R	I DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
13	8.000	3.704	35.12	.0000	180.0	861.2	.8800-01	1355.	98.20	3.952	3884.	.7539-04
14	8.000	3.695	35.12	.0000	180.0	861.7	.8800-01	1358.	98.40	3.954	3888.	.7527-04
15	8.000	3.681	35.12	.0000	180.0	861.4	.8800-01	1361.	98.60	3.953	3893.	.7507-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR R =
13	.7904-07	.4918-01	0.0175
14	.7921-07	.4921-01	.2110-01
15	.7940-07	.4922-01	.2114-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(19T) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1TAN) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
14	.25000	.85000-01	938.00	.3100-02	.2600-02	.3100-02	.1508-03	.1257-03	.1508-03	.1030	.7630	541.5
14	.25000	.17500	939.00	.1300-02	.1100-02	.1300-02	.6501-04	.5418-04	.6501-04	.4400-01	.1970	542.4
14	.25000	.22500	940.00	.1300-02	.1100-02	.1300-02	.6432-04	.5360-04	.6432-04	.4400-01	.1220	543.3
14	.40000	.50000-01	941.00	.3310-01	.2740-01	.3310-01	.1276-02	.1360-02	.1627-02	.1077	9.515	560.4
14	.40000	.20000	942.00	.2590-01	.2130-01	.2590-01	.1276-02	.1060-02	.1276-02	.8500	6.273	556.0
14	.40000	.40000	943.00	.1200-02	.1000-02	.1200-02	.5891-04	.4899-04	.5391-04	.4000-01	.3250	551.0
14	.40000	.60000	944.00	.7000-03	.6000-03	.7000-03	.3395-04	.2824-04	.3395-04	.2300-01	.2300	550.7
14	.40000	.95000	945.00	.3500-02	.3000-02	.3500-02	.1757-03	.1163-03	.1757-03	.1190	1.056	546.6
14	.60000	.25000-01	946.00	.1371	.1112	.1371	.6744-02	.5474-02	.6744-02	3.948	76.38	636.6
14	.60000	.50000-01	947.00	.1428	.1171	.1428	.7029-02	.5764-02	.7029-02	4.351	52.29	603.0
14	.60000	.10000+00	948.00	.7350-01	.6090-01	.7350-01	.3618-02	.2997-02	.3618-02	2.370	20.88	567.0
14	.60000	.20000	949.00	.3840-01	.3180-01	.3840-01	.1867-02	.1566-02	.1867-02	1.249	9.516	560.2
14	.60000	.40000	950.00	.4500-02	.3800-02	.4500-02	.2233-03	.1857-03	.2233-03	1.500	1.278	551.5
14	.60000	.60000	951.00	.5900-02	.4900-02	.5900-02	.2888-03	.2401-03	.2888-03	.1940	1.718	551.7
14	.60000	.85000	952.00	.2000-02	.1500-02	.2000-02	.9676-04	.8056-04	.9676-04	.6500-01	.5190	546.9
14	.60000	.95000	953.00	.9300-02	.7700-02	.9300-02	.4579-03	.3812-03	.4579-03	.3090	3.619	547.0
14	.70000	.20000	954.00	.3790-01	.3140-01	.3790-01	.1863-02	.1546-02	.1863-02	1.233	10.09	560.4

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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(RV1U05)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

DATE 25 AUG 76

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF		H/HREF R=1.0	H/HREF (TAN)	H(9TO)		H(10)		H(11A)		ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
				R=0.9	R=0.9			BTU/ R FT2SEC	BTU/ R FT2SEC	BTU/ R FT2SEC	BTU/ R FT2SEC	BTU/ R FT2SEC	BTU/ R FT2SEC			
14	70000	40000	955.00	.2130-01	.1770-01	.2130-01	.2130-01	.1049-02	.8718-03	.1049-02	.1588-03	.1049-02	.1588-03	.7000	5.743	554.9
14	70000	90000	956.00	.3200-02	.2700-02	.3200-02	.3200-02	.1588-03	.1323-03	.1588-03	.1588-03	.1588-03	.1588-03	.1070	.8860	545.5
14	75000	10000+00	957.00	.1247	.1030	.1247	.1247	.6134-02	.5066-02	.6134-02	.6134-02	.6134-02	.6134-02	3.951	32.05	577.9
14	75000	20000	958.00	.6710-01	.5560-01	.6710-01	.6710-01	.3302-02	.2737-02	.3302-02	.3302-02	.3302-02	.3302-02	2.170	19.14	564.8
14	75000	40000	959.00	.1790-01	.1480-01	.1790-01	.1790-01	.8789-03	.7306-03	.8789-03	.8789-03	.8789-03	.8789-03	.5880	5.015	553.0
14	75000	60000	960.00	.3310-01	.2740-01	.3310-01	.3310-01	.1627-02	.1350-02	.1627-02	.1627-02	.1627-02	.1627-02	1.078	9.166	559.2
14	75000	90000	962.00	.3100-02	.2600-02	.3100-02	.3100-02	.1548-03	.1230-03	.1548-03	.1548-03	.1548-03	.1548-03	.1050	.8650	544.9
14	80000	90000	963.00	.5400-02	.4500-02	.5400-02	.5400-02	.2674-03	.2228-03	.2674-03	.2674-03	.2674-03	.2674-03	.1810	1.419	543.4
14	90000	20000	964.00	.1035	.8560-01	.1035	.1035	.5093-02	.4211-02	.5093-02	.5093-02	.5093-02	.5093-02	3.302	28.99	573.7
14	90000	40000	965.00	.5620-01	.4670-01	.5620-01	.5620-01	.2765-02	.2296-02	.2765-02	.2765-02	.2765-02	.2765-02	1.837	16.26	557.6
14	95000	40000	967.00	.7780-01	.6450-01	.7780-01	.7780-01	.3831-02	.3175-02	.3831-02	.3831-02	.3831-02	.3831-02	2.521	18.53	563.9
14	95000	80000	968.00	.6000-02	.5000-02	.6000-02	.6000-02	.2974-03	.2478-03	.2974-03	.2974-03	.2974-03	.2974-03	.2020	1.551	543.3

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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(RV1U06)

## UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPD8RK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	WCH	MU	LB-SEC /FT2	RN/L X10.5 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
181	7.900			.5309	40.08	.0000	180.0	108.2	.1200-01	1269.	94.20	.5250	3756.	.1071-04
182	7.900			.5453	40.09	.0000	180.0	111.1	.1200-01	1269.	94.10	.5390	3756.	.1100-04
183	7.900			.5475	40.08	.0000	180.0	110.7	.1200-01	1269.	94.10	.5370	3755.	.1097-04

RUN NUMBER	MU	LB-SEC /FT2	RN/L X10.5 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
181	7.900			.5309	40.08	.0000	180.0	108.2	.1200-01	1269.	94.20	.5250	.1071-04
182	7.900			.5453	40.09	.0000	180.0	111.1	.1200-01	1269.	94.10	.5390	.1100-04
183	7.900			.5475	40.08	.0000	180.0	110.7	.1200-01	1269.	94.10	.5370	.1097-04

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTMDT DEG. R /SEC	TM DEG. R
182	.25000	.95000-01	938.00	.3200-02	.2700-02	.3200-02	.5759-04	.4767-04	.5759-04	.3500-01	.2620	532.5
182	.25000	.95000-01	939.00	.1700-02	.1400-02	.1700-02	.3083-04	.2552-04	.3083-04	.1900-01	.8400-01	532.3
182	.40000	.50000-01	941.00	.1050-01	.8800-02	.1060-01	.1910-03	.1579-03	.1910-03	.1160	1.036	536.1
182	.40000	.20000	942.00	.4900-02	.4100-02	.4900-02	.8860-04	.7326-04	.8860-04	.5400-01	.4000	536.0
182	.40000	.40000	943.00	.1300-02	.1000-02	.1300-02	.2255-04	.1865-04	.2255-04	.1400-01	.1130	535.8
182	.40000	.60000	944.00	.5000-03	.4000-03	.5000-03	.9774-05	.7257-05	.8774-05	.5000-02	.5400-01	535.0
182	.40000	.95000	945.00	.1800-02	.1500-02	.1800-02	.3261-04	.2650-04	.3261-04	.2000-01	.1750	532.3
182	.60000	.25000-01	946.00	.9610-01	.7900-01	.9610-01	.1726-02	.1419-02	.1726-02	1.014	20.42	554.7
182	.60000	.50000-01	947.00	.8770-01	.7230-01	.8770-01	.1574-02	.1298-02	.1574-02	.9380	11.59	546.6
182	.60000	.10000-00	948.00	.4070-01	.3360-01	.4070-01	.7301-03	.6031-03	.7301-03	.4400	3.927	539.8
182	.60000	.20000	949.00	.1580-01	.1700-01	.1580-01	.2831-03	.2339-03	.2831-03	.1710	1.318	538.0
182	.60000	.60000	951.00	.1300-02	.1100-02	.1300-02	.2330-04	.1928-04	.2330-04	.1400-01	.1270	534.9
182	.50000	.85000	952.0	.8000-03	.7000-03	.8000-03	.1506-04	.1247-04	.1506-04	.9000-02	.7300-01	532.8
182	.60000	.95000	953.00	.5500-02	.4500-02	.5500-02	.9827-04	.8133-04	.9827-04	.6000-01	.7060	532.9
182	.70000	.20000	954.00	.1340-01	.1110-01	.1340-01	.2404-03	.1987-03	.2404-03	.1450	1.204	537.4
182	.70000	.40000	955.00	.6500-02	.5400-02	.6500-02	.1178-03	.9740-04	.1740-03	.7100-01	.5910	536.5
182	.70000	.90000	956.00	.9000-03	.7000-03	.9000-03	.1618-04	.1340-04	.1618-04	.1000-01	.8200-01	531.9



DATE 25 AUG 76 AEDC VKF V41B-57A (OH-45B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER UPPER 1 ING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(OTO) BTU/ R FT2SEC	H(OTO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ -12SEC	DTMDT DEG. R /SEC	TW DEG. R
182	.75000	.10000+00	957.00	.4230-01	.3500-01	.4230-01	.7605-03	.6286-03	.7605-03	.4600	3.806	537.6
182	.75000	.20000	958.00	.2010-01	.1660-01	.2010-01	.3610-03	.2984-03	.3610-03	.2180	1.952	537.4
182	.75000	.40000	959.00	.6500-02	.5400-02	.6500-02	.1166-03	.5545-04	.1166-03	.7100-01	.6090	535.7
182	.75000	.60000	960.00	.2300-02	.2400-02	.2900-02	.5142-04	.4254-04	.5142-04	.3100-01	.2690	534.3
182	.75000	.80000	961.00	.9000-03	.7000-03	.9000-03	.1537-04	.1272-04	.1537-04	.9000-02	.7800-01	531.9
182	.80000	.90000	962.00	.1900-02	.1600-02	.1900-02	.3399-04	.2815-04	.3399-04	.2100-01	.1630	531.0
182	.80000	.20000	964.00	.2350-01	.1940-01	.2350-01	.4214-03	.3484-03	.4214-03	.2550	2.286	535.9
182	.90000	.40000	965.00	.9000-02	.7400-02	.9000-02	.1612-03	.1333-03	.1612-03	.9800-01	.8780	533.9
182	.95000	.40000	967.00	.1870-01	.1550-01	.1870-01	.3365-03	.2784-03	.3365-03	.2050	1.527	534.1
182	.95000	.80000	968.00	.3400-02	.2800-02	.3400-02	.5073-04	.5029-04	.6073-04	.3700-01	.2870	531.1

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1U06)

UPPER WING

OH-49B (AEDC V41B-57A) OFBITER UPPER WING

PARAMETRIC DATA

ALPHA = 40.03 BETA = .0000 ELEVTR = .0000 SPDBRX = .0000  
 BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG	YAW DEG.	PHI MODEL DEG.	PC PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
154	7.940	1.027	40.07	.0000	180.0	211.6	.2300-01	1267.	93.10	1.004	3753.	.2051-04
155	7.940	1.013	40.11	.0000	180.0	209.6	.2300-01	1271.	93.40	.9950	3761.	.2026-04
156	7.940	1.023	40.08	.0000	180.0	210.3	.2300-01	1265.	93.00	.9930	3751.	.2041-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
154	7493-07	2450-01	0.0175
155	7522-07	2441-01	4014-01
156	7485-07	2442-01	4024-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/8	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	1/HREF (TAK)	H19TO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAH BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTMDT DEG. R /SEC	TH DEG. R
155	.25000	.85000-01	938.00	.2800-02	.2300-02	.2800-02	.6817-04	.5630-04	.6817-04	.4100-01	.3060	540.9
155	.25000	.13500	939.00	.1300-02	.1100-02	.1300-02	.3137-04	.2591-04	.3137-04	.1900-01	.8400-01	541.0
155	.25000	.24500	540.00	.7000-03	.5000-03	.7000-03	.1596-04	.1319-04	.1596-04	.1000-01	.2700-01	541.7
155	.40000	.50000-01	941.00	.1030-01	.8500-02	.1030-01	.2507-03	.2058-03	.2507-03	.1500	1.337	545.4
155	.40000	.20300	942.00	.6100-02	.5000-02	.6100-02	.1483-03	.1223-03	.1483-03	.8900-01	.6600	544.5
155	.40000	.40000	943.00	.9000-03	.8000-03	.9000-03	.2291-04	.1891-04	.2291-04	.1400-01	.1140	543.4
155	.40000	.60000	944.00	.1000-02	.8000-03	.1000-02	.2442-04	.2016-04	.2442-04	.1500-01	.1490	542.3
155	.60000	.25000-01	945.00	.2000-02	.1700-02	.2000-02	.4990-04	.4124-04	.4990-04	.3000-01	.2700	538.8
155	.60000	.50000-01	946.00	.8000-01	.8020-01	.9800-01	.2391-02	.1958-02	.2391-02	1.373	27.45	570.1
155	.60000	.10000+00	947.00	.8650-01	.3350-01	.8650-01	.9912-03	.1775-02	.9912-03	1.266	15.56	558.1
155	.60000	.20000	948.00	.4060-01	.3350-01	.4060-01	.8171-03	.8171-03	.9912-03	.5510	5.260	547.7
155	.60000	.40000	949.00	.1930-01	.1640-01	.1990-01	.4846-03	.3998-03	.4846-03	.2900	2.230	545.1
155	.60000	.60000	950.00	.1200-02	.1000-02	.1200-02	.3020-04	.2493-04	.3020-04	.1800-01	1.550	542.6
155	.60000	.85000	951.00	.1500-02	.1200-02	.1500-02	.3583-04	.2959-04	.3583-04	.2200-01	1.930	541.0
155	.60000	.60000	952.00	.1700-02	.1400-02	.1700-02	.4158-04	.3436-04	.4158-04	.2500-01	.2010	539.0
155	.60000	.85000	953.00	.6100-02	.5100-02	.6100-02	.1494-03	.1234-03	.1494-03	.9000-01	1.062	539.4
155	.70000	.20300	954.00	.1630-01	.1350-01	.1630-01	.3990-03	.3292-03	.3990-03	.2390	1.976	544.1

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

DATE 25 AUG 76

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAK)	H(ISTO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	HITAX) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TH DEG. R
155	.70000	.40000	955.00	.7200-02	.5900-02	.7200-02	.1747-03	.1442-03	.1747-03	.1050	.8690	542.0
155	.70000	.90000	955.00	.1900-02	.1500-02	.1900-02	.4529-04	.3744-04	.4529-04	.2700-01	.2270	537.6
155	.75000	.10000+00	957.00	.4660-01	.3840-01	.4660-01	.1137-02	.9376-03	.1137-02	.6800	5.608	545.9
155	.75000	.20000	958.00	.2690-01	.2220-01	.2690-01	.6563-03	.5416-03	.6563-03	.3940	3.510	544.1
155	.75000	.40000	959.00	.8400-02	.7000-02	.8400-02	.2056-03	.1698-03	.2056-03	.1240	1.004	541.1
155	.75000	.60000	960.00	.1900-02	.1600-02	.1900-02	.4650-04	.3843-04	.4650-04	.2800-01	.2420	539.4
155	.75000	.90000	962.00	.2300-02	.1900-02	.2300-02	.5724-04	.4733-04	.5724-04	.3500-01	.2880	537.3
155	.80000	.90000	963.00	.3000-02	.2500-02	.3000-02	.7402-04	.6121-04	.7402-04	.4500-01	.3530	536.9
155	.90000	.20000	964.00	.3130-01	.2580-01	.3130-01	.7641-03	.6307-03	.7641-03	.4590	4.095	543.2
155	.90000	.40000	965.00	.1530-01	.1260-01	.1530-01	.3727-03	.3079-03	.3727-03	.2250	2.012	539.8
155	.95000	.40000	967.00	.2840-01	.2340-01	.2840-01	.6929-03	.5722-03	.6929-03	.4180	3.106	541.4
155	.95000	.80000	968.00	.3900-02	.3300-02	.3900-02	.9632-04	.7964-04	.9632-04	.5800-01	.4510	537.0

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AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1006)

UPPER WING

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPDRK = .0000  
 BOFLAP = .0000 MACH = 8.0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/1 X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
130	7.970	1.507	40.11	.0000	180.0	321.2	.3400-01	1287.	93.90	1.499	3785.	.3011-04
131	7.970	1.517	40.08	.0000	180.0	320.8	.3400-01	1281.	93.40	1.497	3775.	.3023-04
132	7.970	1.527	40.13	.0000	180.0	321.5	.3400-01	1277.	93.20	1.501	3770.	.3039-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR R =
130	.7563-07	.3002-01	0.0175
131	.7523-07	.2997-01	.3318-01
132	.7502-07	.2999-01	.3310-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DT1DOT DEG. R /SEC	TW DEG. R
131	.25000	.85000-01	938.00	.2900-02	.2400-02	.2900-02	.8678-04	.7171-04	.8678-04	.5300-01	.3930	543.2
131	.25000	.13500	939.00	.1400-02	.1200-02	.1400-02	.4250-04	.3512-04	.4250-04	.2600-01	.1150	543.1
131	.25000	.22500	940.00	.2100-02	.1800-02	.2100-02	.6389-04	.5278-04	.6389-04	.3900-01	.1080	543.1
131	.40000	.50000-01	941.00	.1400-01	.1150-01	.1400-01	.4198-03	.3462-03	.4198-03	.2530	2.250	549.5
131	.40000	.20000	942.00	.1070-01	.8800-02	.1070-01	.3201-03	.2641-03	.3201-03	.1930	1.432	548.8
131	.40000	.40000	943.00	.1200-02	.1000-02	.1200-02	.3616-04	.2984-04	.3616-04	.2200-01	.1800	547.6
131	.40000	.60000	944.00	.5000-03	.4000-03	.5000-03	.1521-04	.1256-04	.1521-04	.9000-02	.4060	546.7
131	.40000	.95000	945.00	.2500-02	.2100-02	.2500-02	.7469-04	.6172-04	.7469-04	.4600-01	.35.90	543.0
131	.60000	.25000-01	946.00	.1052	.8590-01	.1052	.3152-02	.2576-02	.3152-02	1.805	20.35	580.0
131	.60000	.50000-01	947.00	.9410-01	.7730-01	.9410-01	.2822-02	.2317-02	.2822-02	1.660	7.087	564.1
131	.60000	.10000+00	948.00	.4450-01	.3670-01	.4450-01	.1334-02	.1099-02	.1334-02	.7990	3.748	553.6
131	.60000	.20000	949.00	.2720-01	.2240-01	.2720-01	.8146-03	.6716-03	.8146-03	.4900	.3700	551.5
131	.60000	.40000	950.00	.3700-02	.3000-02	.3700-02	.1097-03	.9057-04	.1097-03	.6700-01	.5700	545.8
131	.60000	.60000	951.00	.2300-02	.1900-02	.2300-02	.6930-04	.5721-04	.6930-04	.4200-01	.3740	546.7
131	.60000	.80000	952.00	.2200-02	.1800-02	.2200-02	.6595-04	.5448-04	.6595-04	.4000-01	.3190	544.2
131	.60000	.95000	953.00	.6200-02	.5100-02	.6200-02	.1657-03	.1534-03	.1657-03	.1130	1.326	543.6
131	.70000	.20000	954.00	.2230-01	.1840-01	.2230-01	.6698-03	.5523-03	.6698-03	.4030	3.315	550.8

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DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U06)

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TH DEG. R
131	.70000	.40000	955.00	.1290-01	.1050-01	.1290-01	.3868-03	.3191-03	.3868-03	.2330	1.921	549.0
131	.70000	.90000	956.00	.1600-02	.1300-02	.1600-02	.4800-04	.3967-04	.4800-04	.2900-01	.2420	542.2
131	.75000	.10000-00	957.00	.7470-01	.6150-01	.7470-01	.2240-02	.1844-02	.2240-02	1.336	10.96	556.0
131	.75000	.20000	958.00	.4060-01	.3350-01	.4060-01	.1217-02	.1003-02	.1217-02	.7300	6.482	552.2
131	.75000	.40000	959.00	.1490-01	.1230-01	.1490-01	.4466-03	.3685-03	.4466-03	.2700	2.307	548.4
131	.75000	.60000	960.00	.1130-01	.9300-02	.1130-01	.3387-03	.2795-03	.3387-03	.2050	1.750	548.2
131	.75000	.90000	962.00	.3400-02	.2000-02	.2400-02	.7230-04	.5976-04	.7230-04	.4400-01	.3640	542.2
131	.80000	.90000	963.00	.3600-02	.3000-02	.3600-02	.1081-03	.8939-04	.1081-03	.6600-01	5.170	541.8
131	.90000	.20000	964.00	.4560-01	.3750-01	.4560-01	.1365-02	.1125-02	.1365-02	.8200	7.278	552.0
131	.95000	.40000	965.00	.2410-01	.1990-01	.2410-01	.7212-03	.5953-03	.7212-03	.4370	3.884	547.3
131	.95000	.40000	967.00	.6530-01	.5380-01	.6530-01	.1958-02	.1612-02	.1958-02	1.169	8.634	555.2
131	.95000	.80000	968.00	.3900-02	.3200-02	.3900-02	.1175-03	.9712-04	.1175-03	.7200-01	.5510	542.3

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49E) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U06)

UPPER WING

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BOFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
100	7.980	2.007	40.07	.0000	180.0	431.9	.4500-01	1292.	94.10	2.004	3793.	.4009-04
101	7.980	2.001	40.11	.0000	180.0	431.0	.4500-01	1293.	94.10	2.000	3794.	.3999-04
102	7.980	2.006	40.09	.0000	180.3	432.0	.4500-01	1293.	94.20	2.005	3794.	.4008-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
100	.7576-07	.3473-01	.3473-01	0.0175
101	.7580-07	.3470-01	.3470-01	.2881-01
102	.7580-07	.3474-01	.3474-01	.2878-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTROT DEG. R /SEC	TH DEG. R
101	.25000	.85000-01	938.00	.2500-02	.2100-02	.2500-02	.8811-04	.7303-04	.8811-04	.5500-01	.4110	537.8
101	.25000	.13500	939.00	.7000-03	.6000-03	.7000-03	.256J-04	.2122-04	.2560-04	.1600-01	.7200-01	537.6
101	.25000	.22500	940.00	.1400-02	.1100-02	.1400-02	.4736-04	.3925-04	.4736-04	.3000-01	.8300-01	538.1
101	.40000	.50000-01	941.00	.2220-01	.1840-01	.2220-01	.7709-03	.6372-03	.7709-03	.4750	.4.224	547.8
101	.40000	.20000	942.00	.1290-01	.1060-01	.1290-01	.4468-03	.3695-03	.4468-03	.2760	2.049	545.6
101	.40000	.40000	943.00	.7000-03	.6000-03	.7000-03	.2495-04	.2094-04	.2495-04	.1500-01	.1270	544.6
101	.40000	.60000	944.00	.1000-02	.9000-03	.1000-02	.3595-04	.2975-04	.3595-04	.2200-01	.2260	543.4
101	.40000	.95000	945.00	.2900-02	.2400-02	.2900-02	.1009-03	.8365-04	.1009-03	.6300-01	.5660	536.8
101	.60000	.25000-01	946.00	.9560-01	.7820-01	.9560-01	.3317-02	.2713-02	.3317-02	1.928	38.30	582.6
101	.60000	.50000-01	947.00	.8870-01	.7290-01	.8870-01	.3076-02	.2529-02	.3076-02	1.837	22.47	566.9
101	.60000	.10000+00	948.00	.4930-01	.4120-01	.4930-01	.1732-02	.1429-02	.1732-02	1.056	9.362	554.2
101	.60000	.20000	949.00	.3360-01	.2770-01	.3360-01	.1166-02	.9622-03	.1166-02	.7130	5.452	552.4
101	.60000	.40000	950.00	.5000-02	.4100-02	.5000-02	.1725-03	.1426-03	.1725-03	.1050	.9090	547.4
101	.60000	.60000	951.00	.3200-02	.2600-02	.3200-02	.1103-03	.9121-04	.1103-03	.6800-01	.6060	546.5
101	.60000	.85000	952.00	.3900-02	.3200-02	.3900-02	.1357-03	.1123-03	.1357-03	.8400-01	.6720	541.6
101	.60000	.95000	953.00	.7900-02	.6500-02	.7900-02	.2727-03	.2259-03	.2727-03	.1700	2.000	539.7
101	.70000	.20000	954.00	.2740-01	.2260-01	.2740-01	.9515-03	.7852-03	.9515-03	.5810	4.772	553.2

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(RV1U06)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

DATE 25 AUG 76

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
101	70000	.40000	955.00	.1440-01	.1190-01	.1440-01	.5005-03	.4133-03	.5005-03	.3070	2.524	550.7
101	70000	.90000	956.00	.4000-02	.3300-02	.4000-02	.1403-03	.1162-03	.1403-03	.8700-01	.7220	540.7
101	75000	.10000+00	957.00	.8830-01	.7270-01	.8830-01	.3064-02	.2523-02	.3064-02	1.846	15.10	561.3
101	75000	.20000	958.00	.4820-01	.3970-01	.4820-01	.1671-02	.1378-02	.1671-02	1.016	8.997	556.1
101	75000	.40000	959.00	.2080-01	.1720-01	.2080-01	.7231-03	.5968-03	.7231-03	.4420	3.771	552.6
101	75000	.60000	960.00	.1780-01	.1470-01	.1780-01	.6169-03	.5093-03	.6169-03	.3780	3.224	551.6
101	75000	.80000	962.00	.4700-02	.3900-02	.4700-02	.1621-03	.1342-03	.1621-03	.1010	.8340	541.1
101	80000	.90000	963.00	.5700-02	.4700-02	.5700-02	.1985-03	.1644-03	.1985-03	.1240	.9670	541.5
101	90000	.20000	964.00	.5530-01	.4550-01	.5530-01	.1917-02	.1580-02	.1917-02	1.161	10.27	558.5
101	90000	.40000	965.00	.3600-01	.2970-01	.3600-01	.1250-02	.1031-02	.1250-02	.7640	6.776	552.7
101	95000	.40000	967.00	.5030-01	.4150-01	.5030-01	.1745-02	.1439-02	.1745-02	1.062	7.840	555.3
101	95000	.80000	968.00	.4600-02	.3800-02	.4600-02	.1606-03	.1329-03	.1606-03	.1000+00	.7660	543.0

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U06)

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PSIA	P	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
79	7.990	2.477	40.07	.0000	180.0	543.3	.5600-01	1307.	94.90	2.509	3814.	.4964-04
80	7.990	2.489	40.06	.0000	180.0	545.6	.5600-01	1306.	94.90	2.519	3813.	.4985-04
81	7.990	2.496	40.11	.0000	180.0	545.9	.5600-01	1304.	94.70	2.519	3810.	.4994-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R	SI R =
79	.7642-07	.3894-01	.3894-01	0.0175
80	.7637-07	.3901-01	.3901-01	.2589-01
81	.7624-07	.3900-01	.3900-01	.2580-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZY/B	X/C	I/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(1970) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QOOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
80	.25000	.85000-01	938.00	.2600-02	.2100-02	.2600-02	.9982-04	.8284-04	.9982-04	.6400-01	.4740	538.3
80	.25000	.13500	939.00	.7000-03	.6000-03	.7000-03	.2860-04	.2373-04	.2860-04	.1800-01	.8100-01	538.1
80	.25000	.22500	940.00	.1100-02	.9000-03	.1100-02	.4370-04	.3626-04	.4370-04	.2800-01	.7800-01	539.1
80	.40000	.50000-01	941.00	.2980-01	.2450-01	.2980-01	.1161-02	.9605-03	.1161-02	.7250	6.441	550.8
80	.40000	.20000	942.00	.1780-01	.1470-01	.1780-01	.5948-03	.5753-03	.6948-03	.4370	3.239	546.7
80	.40000	.40000	943.00	.8000-03	.7000-03	.8000-03	.3185-04	.2639-04	.3185-04	.2000-01	.1660	544.4
80	.40000	.60000	944.00	.1000-02	.8000-03	.1000-02	.3998-04	.3313-04	.3998-04	.2500-01	.2560	543.6
80	.40000	.95000	945.00	.3700-02	.3000-02	.3700-02	.1431-03	.1189-03	.1431-03	.9200-01	.8190	535.7
80	.60000	.25000-01	946.00	.9470-01	.7750-01	.9470-01	.3693-02	.3023-02	.3693-02	2.175	43.11	586.6
80	.60000	.50000-01	947.00	.9080-01	.7470-01	.9080-01	.3540-02	.2913-02	.3540-02	2.147	26.24	568.0
80	.60000	.10000+00	948.00	.5250-01	.4340-01	.5250-01	.2047-02	.1691-02	.2047-02	1.271	11.26	554.6
80	.60000	.20000	949.00	.3480-01	.2880-01	.3480-01	.1357-02	.1122-02	.1357-02	.8460	6.470	552.2
80	.60000	.40000	950.00	.1800-02	.1500-02	.1800-02	.7185-04	.5949-04	.7185-04	.4500-01	.3860	547.0
80	.60000	.60000	951.00	.3600-02	.3000-02	.3600-02	.1410-03	.1168-03	.1410-03	.8900-01	.7910	545.7
80	.60000	.85000	952.00	.5500-02	.4600-02	.5500-02	.2155-03	.1788-03	.2155-03	.1370	1.091	540.2
80	.60000	.95000	953.00	.1040-01	.8600-02	.1040-01	.4064-03	.3372-03	.4064-03	.2590	3.041	538.9
80	.70000	.20000	954.00	.2920-01	.2410-01	.2920-01	.1139-02	.9417-03	.1139-02	.7100	5.830	552.5



(RV1U06)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

DATE 25 AUG 76

OH-49P (AEDC V41B-57A) OFB TER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(11A) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTMOT DEG. R /SEC	TM DEG. R
80	.70000	.40000	955.00	.1480-01	.1230-01	.1480-01	.5779-03	.4781-03	.5779-03	.3620	2.978	549.2
80	.70000	.90000	956.00	.6000-02	.4900-02	.6000-02	.2322-03	.1927-03	.2322-03	.1480	1.221	539.7
80	.75000	.10000+00	957.00	.1052	.8680-01	.1052	.4105-02	.3385-02	.4105-02	2.521	20.62	561.3
80	.75000	.20000	958.00	.5010-01	.4950-01	.6010-01	.2344-02	.1935-02	.2344-02	1.452	12.86	556.0
80	.75000	.40000	959.00	.1890-01	.1560-01	.1890-01	.7369-03	.6796-03	.7369-03	.4610	3.940	549.6
80	.75000	.60000	960.00	.2340-01	.1930-01	.2340-01	.9119-03	.7541-03	.9119-03	.5690	4.861	551.1
80	.75000	.90000	961.00	.6000-02	.4900-02	.6000-02	.2323-03	.1927-03	.2323-03	.1480	1.221	539.5
80	.80000	.90000	962.00	.6700-02	.5500-02	.6700-02	.2600-03	.2157-03	.2600-03	.1650	1.295	539.5
80	.90000	.20000	964.00	.8940-01	.7370-01	.8940-01	.3427-02	.2874-02	.3427-02	2.134	18.63	563.3
80	.90000	.40000	965.00	.4660-01	.3350-01	.4660-01	.1819-02	.1503-02	.1819-02	1.132	10.05	552.8
80	.95000	.40000	967.00	.8200-01	.6770-01	.8200-01	.3200-02	.2641-02	.3200-02	1.973	14.55	558.6
80	.95000	.80000	968.00	.6000-02	.5000-02	.6000-02	.2352-03	.1950-03	.2352-03	.1490	1.147	541.4

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

PAGE 720

OH-49B (AEDC V41B-57A) OFB TER UPPER WING

(RV1U06)

## UPPER WING

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.0000

## \*\*\*TEST CONCLUSIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL D-G.	PC PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
58	7.990	2.924	40.10	.0000	180.0	675.7	.7000-01	1352.	98.20	3.118	3880.	.5960-04
59	7.990	2.951	40.13	.0000	180.0	676.3	.7000-01	1345.	97.70	3.121	3869.	.5998-04
60	7.990	2.935	40.06	.0000	180.0	676.5	.7000-01	1351.	98.10	3.124	3878.	.5979-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
58	.7908-07	.4367-01		0.0175
59	.7864-07	.4364-01		.2371-01
60	.7897-07	.4363-01		.2367-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAL)	H/STO BTU/ R FT2SEC	H/TO BTU/ R FT2SEC	H/TAH BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
59	.25000	.85000-01	939.00	.2700-02	.2200-02	.2700-02	.1164-03	.9686-04	.1164-03	.7800-01	.5760	544.0
59	.25000	.13500	939.00	.9000-03	.7000-03	.9000-03	.3856-04	.3208-04	.3856-04	.2600-01	.1140	544.2
59	.25000	.22500	940.00	.1700-02	.1400-02	.1700-02	.7551-04	.6281-04	.7551-04	.5000-01	.1400	545.2
59	.40000	.50000-01	941.00	.5830-01	.4620-01	.5830-01	.2542-02	.2102-02	.2542-02	.8020	14.36	568.6
59	.40000	.20000	942.00	.2810-01	.2330-01	.2810-01	.1225-02	.1016-02	.1225-02	.1800-01	5.917	556.1
59	.40000	.40000	943.00	.6000-03	.5000-03	.6000-03	.2716-04	.2255-04	.2716-04	.2500-01	.1470	551.9
59	.40000	.60000	944.00	.9000-03	.7000-03	.9000-03	.3822-04	.3174-04	.3822-04	.1210	.2540	551.6
59	.60000	.25000-01	945.00	.4200-02	.3500-02	.4200-02	.1818-03	.1512-03	.1818-03	.2451	48.36	596.0
59	.60000	.50000-01	947.00	.8490-01	.7000-01	.8490-01	.3703-02	.3272-02	.3703-02	.2351	28.64	575.5
59	.60000	.10000-00	948.00	.3700-01	.3070-01	.3700-01	.1616-02	.1340-02	.1616-02	1.053	9.317	568.7
59	.60000	.20000	949.00	.1070-01	.8200-02	.1070-01	.4680-03	.3984-03	.4680-03	.3070	2.347	554.2
59	.60000	.40000	950.00	.4000-03	.3000-03	.4000-03	.1815-04	.1507-04	.1815-04	.1200-01	.1020	552.4
59	.60000	.60000	951.00	.1600-02	.1300-02	.1600-02	.7011-04	.5823-04	.7011-04	.4600-01	.4100	551.2
59	.60000	.85000	952.00	.2200-02	.1900-02	.2200-02	.9717-04	.8080-04	.9717-04	.6500-01	.5130	546.4
59	.60000	.95000	953.00	.1110-01	.9300-02	.1110-01	.4865-03	.4046-03	.4865-03	.3230	3.784	546.4
59	.70000	.20000	954.00	.2550-01	.2120-01	.2550-01	.1113-02	.9231-03	.1113-02	.7270	5.959	557.3

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(RV1U06)

AEDC "KF" V41B-57A (OH-49B) COLLATION DECK

DATE 25 AUG 76

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9T0) BTU/ R FT2SEC	H(T0) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
59	.70000	.40000	955.00	2270-01	.1890-01	.2270-01	.9228-03	.8235-03	.9228-03	.6490	5.323	556.5
59	.70000	.90000	955.00	.3500-02	.2900-02	.3500-02	.1532-03	.1275-03	.1532-03	.1020	.8410	544.9
59	.75000	.10000+00	957.00	.6950-01	.5760-01	.6950-01	.3038-02	.2515-02	.3038-02	1.966	16.06	563.2
59	.75000	.20000	959.00	.5430-01	.4500-01	.5430-01	.2371-02	.1953-02	.2371-02	1.537	13.58	561.9
59	.75000	.40000	959.00	.1960-01	.1640-01	.1960-01	.8632-03	.7163-03	.8632-03	.5660	4.825	554.5
59	.75000	.60000	950.00	.2040-01	.1700-01	.2040-01	.8923-03	.7404-03	.8923-03	.5850	4.982	555.1
59	.80000	.90000	962.00	.4900-02	.4000-02	.4900-02	.2123-03	.1767-03	.2123-03	.1410	1.167	544.3
59	.80000	.90000	963.00	.5800-02	.4600-02	.5800-02	.2512-03	.2090-03	.2512-03	.1680	1.310	543.5
59	.90000	.20000	964.00	.1395	.1148	.795	.6059-02	.5011-02	.6059-02	3.808	33.24	585.0
59	.90000	.40000	955.00	.4730-01	.3930-01	.4730-01	.2058-02	.1714-02	.2058-02	1.351	11.97	556.4
59	.95000	.40000	957.00	.6260-01	.5190-01	.6260-01	.2733-02	.2264-02	.2733-02	1.775	13.07	561.1
59	.95000	.60000	958.00	.4300-02	.4100-02	.4300-02	.2147-03	.1787-03	.2147-03	.1430	1.101	543.2

DATE 25 AUG 76

AEDC VKI V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U06)

## PARAMETRIC DATA

ALPHA = 40.00 ELTA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /F <sup>3</sup>
40	8.000	3.332	40.05	.0000	180.0	760.6	.7800-01	1338.	97.00	3.490	3861.	.6739-04
41	8.000	3.313	40.10	.0000	180.0	759.9	.7800-01	1343.	97.30	3.487	3867.	.6712-04
42	8.000	3.334	40.11	.0000	180.0	759.7	.7800-01	1337.	96.90	3.486	3858.	.6740-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	ST FR R =
40	.7809-07	.4611-01	.2227-01
41	.7833-07	.4612-01	.2232-01
42	.7799-07	.4608-01	.2227-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1GTO) BTU/ R FT2SEC	H1TO) BTU/ R FT2SEC	H1TAH) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TM DEG. R
41	.25000	.13500	939.00	.8000-03	.7000-03	.8000-03	.3914-04	.3256-04	.3914-04	.2600-01	.1160	544.6
41	.25000	.22500	940.00	.2800-02	.2400-02	.2800-02	.1309-03	.1088-03	.1309-03	.8700-01	.2410	545.7
41	.40000	.50000-01	941.00	.3620-01	.3160-01	.3620-01	.1760-02	.1456-02	.1760-02	1.132	9.984	544.9
41	.40000	.20000	942.00	.2500-01	.2500-01	.3010-01	.1390-02	.1152-02	.1390-02	.9030	6.652	559.1
41	.40000	.40000	943.00	.6000-03	.6000-03	.8000-03	.3479-04	.2888-04	.3479-04	.2300-01	.1870	552.8
41	.40000	.60000	944.00	.8000-03	.7000-03	.8000-03	.3760-04	.3121-04	.3760-04	.2500-01	.2490	552.6
41	.40000	.95000	945.00	.4200-02	.3500-02	.4200-02	.1931-03	.1605-03	.1931-03	.1270	1.133	548.3
41	.60000	.25000-01	946.00	.9120-01	.7470-01	.9120-01	.4208-02	.3444-02	.4208-02	2.543	50.06	603.3
41	.60000	.50000-01	947.00	.8800-01	.7250-01	.8800-01	.4039-02	.3342-02	.4039-02	2.543	30.88	581.9
41	.60000	.10000+00	948.00	.4750-01	.3930-01	.4750-01	.2190-02	.1812-02	.2190-02	1.412	12.46	563.5
41	.60000	.20000	949.00	.3040-01	.2520-01	.3040-01	.1402-02	.1162-02	.1402-02	.9100	6.937	559.2
41	.60000	.40000	950.00	.3800-02	.3100-02	.3800-02	.1740-03	.1443-03	.1740-03	.1140	.9690	554.6
41	.60000	.60000	951.00	.5200-02	.4300-02	.5200-02	.2384-03	.1979-03	.2384-03	.1560	1.386	552.9
41	.60000	.80000	952.00	.1300-02	.1100-02	.1300-02	.5872-04	.4880-04	.5872-04	.3900-01	.3080	548.5
41	.60000	.95000	953.00	.1100-01	.9200-02	.1100-01	.5084-03	.4223-03	.5084-03	.3350	3.918	549.3
41	.70000	.20000	954.00	.3060-01	.2540-01	.3060-01	.1412-02	.1122-02	.1412-02	.9160	7.498	559.7
41	.70000	.40000	955.00	.2940-01	.2430-01	.2940-01	.1355-02	.1122-02	.1355-02	.8800	7.203	559.0

REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR

(RV1U06)

AEDC VKF V41B-57A (04-49B) COLLATION DECK

04-49B (AEDC V41B-57A) ORBITER UPPER WING

DATE 25 AUG 76	RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
	41	.70000	.30000	956.00	.3700-02	.3100-02	.3700-02	.1701-03	.1414-03	.1701-03	.1120	.9260	547.3
	41	.75000	.10000-00	957.00	.1013	.8370-01	.1013	.4670-02	.3858-02	.4670-02	2.977	24.23	570.9
	41	.75000	.20000	958.00	.5660-01	.4690-01	.5660-01	.2612-02	.2161-02	.2612-02	1.681	14.82	564.8
	41	.75000	.40000	959.00	.1990-01	.1650-01	.1990-01	.9158-03	.7596-03	.9158-03	.5980	5.096	555.2
	41	.75000	.60000	960.00	.2220-01	.1840-01	.2220-01	.1025-02	.8499-03	.1025-02	.6680	5.684	556.9
	41	.75000	.90000	962.00	.4300-02	.3500-02	.4300-02	.1967-03	.1635-03	.1967-03	.1300	1.072	546.8
	41	.80000	.90000	963.00	.8400-02	.7000-02	.8400-02	.3.37-03	.3231-.3	.3987-03	.2570	2.006	547.1
	41	.90000	.20000	964.00	.9520-01	.7850-01	.9520-01	.4391-02	.3621-02	.4391-02	2.774	24.32	576.6
	41	.90000	.40000	965.00	.6980-01	.5770-01	.6980-01	.3218-02	.2662-02	.3218-02	2.070	18.25	565.0
	41	.95000	.40000	967.00	.1034	.8540-01	.1034	.4757-02	.3937-02	.4757-02	3.034	22.22	571.8
	41	.95000	.80000	968.00	.7900-02	.6600-02	.7900-02	.2539-03	.3025-03	.2539-03	.2410	1.846	547.1

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) CALCULATION DECK

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OH-49B (AEDC V41B-57A) OF911ER UPPER WING

(RV1U06)

## UPPER WING

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
 BDFLAP = .0000 MACH = 9.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAH DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	MHO SLUGS /FT <sup>3</sup>
16	8.000	3.693	40.11	.0000	180.0	832.5	.8800-01	1359.	98.50	3.958	3890.	.7527-04
17	8.000	3.708	40.11	.0000	180.0	830.6	.8800-01	1353.	98.10	3.948	3882.	.7542-04
18	8.000	3.710	40.13	.0000	180.0	830.4	.8800-01	1353.	98.00	3.948	3881.	.7543-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R	ST FR R =
16	.7929-07	.4924-01	.4924-01	0.0175
17	.7895-07	.4915-01	.4915-01	.2108-01
18	.7892-07	.4914-01	.4914-01	.2107-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	QDOT DEG. R /SEC	TH DEG. R
17	.25000	.85000-01	936.00	.3100-02	.2600-02	.3100-02	.1528-03	.1272-03	.1528-03	.1330	.7650	544.1
17	.25000	.13500	939.00	.1000-02	.8000-03	.1000-02	.4749-04	.3955-04	.4749-04	.3200-01	.1430	543.8
17	.25000	.22500	940.00	.1200-02	.1000-02	.1200-02	.5656-04	.4709-04	.5656-04	.3800-01	.1060	545.1
17	.40000	.58000-01	941.00	.3430-01	.2840-01	.3430-01	.1686-02	.1537-02	.1686-02	.1104	9.741	563.3
17	.40000	.20000	942.00	.2160-01	.1790-01	.2160-01	.1050-02	.8931-03	.1050-02	.7010	5.171	557.0
17	.40000	.40000	943.00	.6000-03	.7660-03	.6000-03	.3955-04	.3295-04	.3955-04	.2600-01	.2170	552.5
17	.40000	.60000	944.00	.1000-02	.8000-03	.1000-02	.4937-04	.4070-04	.4937-04	.3300-01	.3290	552.5
17	.40000	.95000	945.00	.4900-02	.4100-02	.4900-02	.2428-03	.2019-03	.2428-03	.1620	1.444	549.0
17	.60000	.25000-01	946.00	.1323	.1077	.1323	.6503-02	.5295-02	.6503-02	3.802	75.03	625.0
17	.60000	.50000-01	947.00	.1239	.1018	.1239	.6082-02	.5004-02	.6082-02	3.802	45.91	593.6
17	.60000	.10000-00	948.00	.6440-01	.5330-01	.6440-01	.3166-02	.2622-02	.3166-02	2.065	18.20	565.8
17	.60000	.20000	949.00	.4860-01	.4030-01	.4860-01	.2391-02	.1981-02	.2391-02	1.566	11.91	563.1
17	.60000	.40000	950.00	.5500-02	.4600-02	.5500-02	.2732-03	.2270-03	.2732-03	1.820	1.550	552.9
17	.50000	.60000	951.00	.9100-02	.7800-02	.9100-02	.4638-03	.3853-03	.4638-03	3.080	2.735	553.2
17	.60000	.85000	952.00	.2700-02	.2200-02	.2700-02	.1304-03	.1084-03	.1304-03	.8700-01	.6330	548.4
17	.60000	.95000	953.00	.1080-01	.9000-02	.1080-01	.5316-03	.4421-03	.5316-03	3.560	4.157	549.3
17	.70000	.20000	954.00	.4550-01	.4100-01	.4550-01	.2433-02	.2016-02	.2433-02	1.560	12.99	564.4

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

LATE 25 AUG 76

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
17	.70000	.40000	955.00	.4250-01	.3530-01	.4250-01	.2091-02	.1733-02	.2091-02	1.372	11.22	561.7
17	.70000	.90000	956.00	.4000-02	.3300-02	.4000-02	.1952-03	.1625-03	.1952-03	.1310	1.080	546.6
17	.75000	.10000+00	957.00	.1411	.1162	.1411	.6933-02	.5712-02	.6933-02	4.389	35.48	585.0
17	.75000	.20000	958.00	.8080-01	.6680-01	.8080-01	.3971-02	.3284-02	.3971-02	2.568	22.57	571.4
17	.75000	.40000	959.00	.2810-01	.2330-01	.2810-01	.1392-02	.1148-02	.1392-02	.9150	7.795	555.9
17	.75000	.60000	960.00	.5130-01	.4250-01	.5130-01	.2522-02	.2089-02	.2522-02	1.646	13.95	565.4
17	.75000	.80000	962.00	.4900-02	.4000-02	.4900-02	.2388-03	.1988-03	.2388-03	.1600	1.323	546.1
17	.80000	.90000	963.00	.4600-02	.3800-02	.4600-02	.2270-03	.1891-03	.2270-03	.1530	1.197	543.6
17	.90000	.20000	964.00	.6300-01	.5220-01	.6300-01	.3097-02	.2565-02	.3097-02	2.023	17.84	564.8
17	.90000	.40000	965.00	.4560-01	.3790-01	.4560-01	.2242-02	.1861-02	.2242-02	1.482	13.12	557.2
17	.95000	.40000	967.00	.7260-01	.6010-01	.7260-01	.3557-02	.2956-02	.3557-02	2.334	17.16	563.6
17	.95000	.80000	968.00	.5200-02	.4400-02	.5200-02	.2574-03	.2144-03	.2574-03	.1740	1.333	544.0

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

PARAMETRIC DATA

ALPHA = 40.00 BETA = -2.000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEC.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
184	7.900	.5375	40.09	2.000	158.0	109.5	.1200-01	1269.	94.10	.5320	3756.	.1085-04
185	7.900	.5382	40.07	2.000	158.0	109.7	.1200-01	1269.	94.20	.5330	3756.	.1086-04
186	7.900	.5355	40.09	2.000	158.0	109.2	.1200-01	1270.	94.20	.5300	3757.	.1081-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
184	.7578-07	.1783-01	0.0175
185	.7580-07	.1785-01	.5522-01
186	.7582-07	.1781-01	.5531-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
185	.25000	.85000-01	938.00	.2600-02	.2200-02	.2600-02	.4635-04	.3837-04	.4635-04	.2800-01	.2110	531.8
185	.25000	.13500	939.00	.3000-02	.2500-02	.3000-02	.5406-04	.4476-04	.5406-04	.3300-01	.1480	531.8
185	.25000	.22500	940.00	.2200-02	.1900-02	.2200-02	.4006-04	.3316-04	.4006-04	.2400-01	.6800-01	532.3
185	.40000	.50000-01	941.00	.9500-02	.7000-02	.8500-02	.1513-03	.1252-03	.1513-03	.9200-01	.8260	532.9
185	.40000	.20000	942.00	.4200-02	.3500-02	.4200-02	.7513-04	.6217-04	.7513-04	.4600-01	.3420	533.5
185	.40000	.40000	943.00	.5000-03	.4000-03	.5000-03	.8634-05	.7143-05	.8634-05	.5000-02	.4400-01	534.2
185	.40000	.60000	944.00	.3000-03	.2000-03	.3000-03	.5285-05	.4373-05	.5285-05	.3000-02	.3300-01	533.5
185	.40000	.95000	945.00	.1300-02	.1000-02	.1300-02	.2255-04	.1869-04	.2255-04	.1400-01	.1240	528.3
185	.60000	.25000-01	946.00	.9210-01	.7590-01	.9210-01	.1644-02	.1355-02	.1644-02	.9770	19.75	540.8
185	.60000	.50000-01	947.00	.7950-01	.6550-01	.7950-01	.1418-02	.1171-02	.1418-02	.8530	10.58	540.8
185	.60000	.10000+00	948.00	.3540-01	.2930-01	.3540-01	.6313-03	.5222-03	.6313-03	.3840	3.434	534.9
185	.60000	.20000	949.00	.1550-01	.1290-01	.1550-01	.2774-03	.2295-03	.2774-03	.1690	1.302	534.2
185	.60000	.80000	951.00	.5000-03	.4000-03	.5000-03	.9274-05	.7678-05	.9274-05	.6000-02	.5100-01	531.5
185	.60000	.85000	952.00	.5000-03	.4000-03	.5000-03	.8254-05	.6841-05	.8254-05	.5000-02	.4100-01	528.1
185	.60000	.95000	953.00	.4500-02	.4100-02	.4900-02	.8810-04	.7304-04	.8810-04	.5400-01	.6410	526.9
185	.70000	.20000	954.00	.1280-01	.1020-01	.1280-01	.2278-03	.1885-03	.2278-03	.1390	1.154	532.1
185	.70000	.40000	955.00	.5900-02	.4900-02	.5900-02	.1046-03	.8657-04	.1046-03	.6400-01	.5300	531.5



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AN) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
185	.70000	.90000	956.00	.2700-02	.2300-02	.2700-02	.4861-04	.4032-04	.4861-04	.3000-01	.2500	525.3
185	.75000	.10000+00	957.00	.4000-01	.3310-01	.4000-01	.7140-03	.5913-03	.7140-03	.4370	3.628	530.7
185	.75000	.20000	958.00	.1820-01	.1510-01	.1820-01	.3254-03	.2694-03	.3254-03	.1990	1.786	530.7
185	.75000	.40000	959.00	.6500-02	.5400-02	.6500-02	.1153-03	.9553-03	.1153-03	.7100-01	.6090	530.3
185	.75000	.60000	960.00	.3300-02	.2700-02	.3300-02	.5808-04	.4811-04	.5808-04	.3600-01	.3070	529.5
185	.75003	.90000	962.00	.3000-02	.2500-02	.3000-02	.5410-04	.4488-04	.5410-04	.3300-01	.2780	529.8
185	.80000	.90000	963.00	.2600-02	.2100-02	.2600-02	.4603-04	.3819-04	.4603-04	.2800-01	.2250	523.9
185	.90000	.20000	964.00	.2460-01	.2040-01	.2460-01	.4392-03	.3640-03	.4392-03	.2700	2.423	528.2
185	.90000	.40000	965.00	.1470-01	.1210-01	.1470-01	.2615-03	.2168-03	.2615-03	.1610	1.446	527.1
185	.95000	.40000	967.00	.1230-01	.1020-01	.1230-01	.2190-03	.1818-03	.2190-03	.1350	1.010	526.5
185	.95000	.80000	968.00	.3400-02	.2800-02	.3400-02	.5992-04	.4972-04	.5992-04	.3700-01	.2880	524.1

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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(RV1U07)

OH-498 (AEDC V41B-57A) ORBITER UPPER WING

UPPER WING

PARAMETRIC DATA

ALPHA = 40.00 BETA = -2.000 ELEVTR = .0000 SPDBRK = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
157	7.940	1.035	40.08	2.000	158.0	211.1	.2300-01	1259.	92.50	1.002	3741.	.2059-04
158	7.940	1.025	40.08	2.000	158.0	209.2	.2200-01	1259.	92.50	.9330	3743.	.2040-04
159	7.940	1.018	40.09	2.000	158.0	207.9	.2200-01	1260.	92.60	.9870	3743.	.2027-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR R =
157	7446-07	.2444-01	0.0175
158	7450-07	.2434-01	.4003-01
159	7452-07	.2426-01	.4023-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AN) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
158	.25000	.85000-01	938.00	.2400-02	.2000-02	.2400-02	.5762-04	.4753-04	.5762-04	.3400-01	.2540	540.5
158	.25000	.13500	939.00	.1400-02	.1200-02	.1400-02	.3517-04	.2901-04	.3517-04	.2100-01	.9300-01	540.7
158	.25000	.22500	940.00	.1800-02	.1500-02	.1800-02	.4375-04	.3608-04	.4375-04	.2600-01	.7200-01	541.2
158	.40000	.50000-01	941.00	.8200-02	.7400-02	.8900-02	.2175-03	.1791-03	.2175-03	.1280	1.137	546.2
158	.40000	.20000	942.00	.5000-02	.4100-02	.5000-02	.1224-03	.1008-03	.1224-03	.7200-01	.5330	546.1
158	.40000	.40000	943.00	.1000-02	.8000-03	.1000-02	.2381-04	.1951-04	.2381-04	.1400-01	.1150	546.0
158	.40000	.60000	944.00	.1100-02	.9000-03	.1100-02	.2649-04	.2182-04	.2649-04	.1600-01	.1580	545.4
158	.40000	.90000	945.00	.1600-02	.1400-02	.1800-02	.4277-04	.3526-04	.4277-04	.2500-01	.2260	541.6
158	.60000	.25000-01	946.00	.9200-01	.7380-01	.9020-01	.2194-02	.1795-02	.2194-02	1.242	24.87	567.2
158	.60000	.50000-01	947.00	.7380-01	.6550-01	.7380-01	.1942-02	.1593-02	.1942-02	1.117	13.73	558.2
158	.60000	.10000-00	948.00	.3750-01	.3120-01	.3750-01	.9218-03	.7581-03	.9218-03	.5380	4.777	550.1
158	.60000	.20000	949.00	.1710-01	.1410-01	.1710-01	.4158-03	.3420-03	.4158-03	.2430	1.862	549.0
156	.60000	.40000	950.00	.5200-02	.4300-02	.5200-02	.1272-03	.1047-03	.1272-03	.7500-01	.6390	546.3
158	.60000	.60000	951.00	.1300-02	.1100-02	.1300-02	.3177-04	.2616-04	.3177-04	.1900-01	.1660	545.6
158	.60000	.85000	952.00	.1100-02	.9000-03	.1100-02	.2652-04	.2186-04	.2652-04	.1600-01	.1250	542.9
158	.60000	.95000	953.00	.5500-02	.4500-02	.5500-02	.1333-03	.1099-03	.1333-03	.7900-01	.9240	542.5
158	.70000	.20000	954.00	.1510-01	.1240-01	.1510-01	.3669-03	.3018-03	.3669-03	.2140	1.754	549.1

AEDC VKF V4(3-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V4IB-57A) ORBITER UPPER WING

DATE 25 AUG 76

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(OTO) BTU/R FT2SEC	H(OTO) BTU/R FT2SEC	H(TAH) BTU/R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
158	.70000	.40000	955.00	.8400-02	.6900-02	.8400-02	.2045-03	.1683-03	.2045-03	.1200	.9860	548.1
158	.70000	.90000	956.00	.1600-02	.1300-02	.1600-02	.3949-04	.3174-04	.3849-04	.2300-01	.1880	541.7
158	.75000	.10000+00	957.00	.4230-01	.3480-01	.4230-01	.1029-02	.6460-03	.1029-02	.6000	4.935	550.2
158	.75000	.20000	958.00	.2610-01	.2150-01	.2610-01	.6358-03	.5231-03	.6358-03	.3710	3.300	549.3
158	.75000	.40000	959.00	.8000-02	.6600-02	.8000-02	.1944-03	.1601-03	.1944-03	.1140	.9750	547.0
158	.75000	.60000	960.00	.3730-02	.3100-02	.3700-02	.9075-04	.7475-04	.9076-04	.5300-01	.4570	545.5
158	.75000	.90000	961.00	.1900-02	.1600-02	.1900-02	.4708-04	.3832-04	.4708-04	.2800-01	.2300	541.5
158	.80000	.90000	962.00	.3000-02	.2200-02	.3000-02	.7231-04	.5553-04	.7231-04	.4300-01	.3350	541.2
158	.90000	.20000	964.00	.1970-01	.1600-01	.1970-01	.4788-03	.3941-03	.4788-03	.2810	2.496	547.4
158	.90000	.40000	965.00	.1460-01	.1200-01	.1460-01	.7542-03	.2917-03	.3542-03	.2080	1.854	545.7
158	.95000	.40000	967.00	.3046-01	.2500-01	.3046-01	.7402-03	.6095-03	.7402-03	.4350	3.223	546.4
158	.95000	.80000	968.00	.2500-02	.2400-02	.2500-02	.6943-04	.5730-04	.6943-04	.4100-01	.3160	541.6

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

UPPER WING

## PARAMETRIC DATA

ALPHA = 40.00 BETA = -2.000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
103	7.980	2.042	40.02	2.000	158.0	439.6	.4500-01	1293.	94.10	2.040	3794.	.4079-04
104	7.980	1.595	40.03	2.000	158.0	429.3	.4500-01	1292.	94.10	1.992	3793.	.3986-04
105	7.980	2.008	40.04	2.000	158.0	.31.8	.4500-01	1292.	94.00	2.004	3792.	.4010-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
103	.7579-07	.3504-01	.3504-01	0.0175
104	.7574-07	.3463-01	.3463-01	.2853-01
105	.7572-07	.3473-01	.3473-01	.2877-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(1TO) BTU/ R FT <sup>2</sup> SEC	H(1TAW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTWDT DEG. R /SEC	TW DEG. R
104	.25000	.85000-01	938.00	.2100-02	.1800-02	.2100-02	.7395-04	.6128-04	.7395-04	.4600-01	.3440	538.0
104	.25000	.13500	939.00	.7000-03	.6000-03	.7000-03	.2483-04	.2057-04	.2483-04	.1600-01	.6900-01	538.1
104	.25000	.22500	940.00	.2000-02	.2000-02	.2400-02	.8187-04	.6782-04	.8187-04	.5100-01	.1430	539.2
104	.40000	.50000-01	941.00	.4710-01	.1410-01	.1710-01	.5311-03	.4835-03	.5311-03	.3640	3.234	548.0
104	.40000	.20000	942.00	.1000-01	.8200-02	.1000-01	.3449-03	.2851-03	.3449-03	.2130	1.578	546.1
104	.40000	.40000	943.00	.1200-02	.1000-02	.1200-02	.4033-04	.3335-04	.4033-04	.2500-01	.2050	545.1
104	.40000	.60000	944.00	.5000-03	.4000-03	.5000-03	.1705-04	.1411-04	.1705-04	.1100-01	1.070	543.6
104	.60000	.75000-01	945.00	.8200-02	.2600-02	.3200-02	.1091-03	.9047-04	.1091-03	.6800-01	.8120	535.9
104	.60000	.50000-01	946.00	.7500-01	.7120-01	.8630-01	.3008-02	.2464-02	.3008-02	1.763	35.13	576.8
104	.60000	.10000-01	947.00	.4130-01	.6540-01	.7950-01	.2754-02	.2266-02	.2754-02	1.652	20.26	562.9
104	.60000	.10000-01	948.00	.4130-01	.3410-01	.4130-01	.1431-02	.1181-02	.1431-02	.8740	7.751	552.7
104	.60000	.20000	949.00	.2750-01	.2270-01	.2750-01	.9526-03	.7864-03	.9526-03	.5830	4.459	551.5
104	.60000	.40000	950.00	.6500-02	.5500-02	.6600-02	.2295-03	.1897-03	.2295-03	.1410	1.209	547.2
104	.60000	.60000	951.00	.3500-02	.2900-02	.3500-02	.1195-03	.9878-04	.1195-03	.7400-01	.6560	546.3
104	.60000	.85000	952.00	.3400-02	.2800-02	.3400-02	.1175-03	.9734-04	.1175-03	.7300-01	.5830	540.5
104	.60000	.95000	953.00	.7500-02	.6300-02	.7600-02	.2629-07	.2178-03	.2629-03	.1640	1.930	538.7
104	.70000	.20000	954.00	.2770-01	.2290-01	.2770-01	.9504-03	.7927-03	.9504-03	.5870	4.820	552.2

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(RV1U07)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AH) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
104	.70000	.40000	955.00	.1330-01	.1100-01	.1330-01	.4618-03	.3814-03	.4618-03	.2830	2.331	549.6
104	.70000	.90000	956.00	.4400-02	.3600-02	.4400-02	.1519-03	.1258-01	.1519-03	.9500-01	.7830	539.5
104	.75000	.10000+00	957.00	.8950-01	.7370-01	.8950-01	.3101-02	.2553-02	.3101-02	1.868	15.29	560.5
104	.75000	.20000	958.00	.5030-01	.4170-01	.5060-01	.1752-02	.1445-02	.1752-02	1.066	9.453	554.4
104	.75000	.40000	959.00	.1000-01	.8300-02	.1000-01	.3467-03	.2864-03	.3467-03	.2130	1.816	549.9
104	.75000	.60000	960.00	.1800-01	.1480-01	.1800-01	.6219-03	.5137-03	.6219-03	.3810	3.259	549.7
104	.75000	.80000	962.00	.5300-02	.4400-02	.5300-02	.1648-03	.1531-03	.1648-03	.1150	.9520	539.9
104	.80000	.90000	963.00	.6400-02	.5300-02	.6400-02	.2226-03	.1843-03	.2226-03	.1390	1.085	540.5
104	.90000	.20000	964.00	.3530-01	.2910-01	.3530-01	.1223-02	.1008-02	.1223-02	.7410	6.565	556.7
104	.90000	.40000	965.00	.2930-01	.2330-01	.2820-01	.9750-03	.8052-03	.9750-03	.5970	5.306	550.3
104	.95000	.40000	967.00	.6930-01	.5720-01	.6930-01	.2400-02	.1990-02	.2400-02	1.461	10.79	554.2
104	.95000	.80000	968.00	.4630-02	.4000-02	.4800-02	.1668-03	.1381-03	.1668-03	.1040	.7970	541.5

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U07)

UPPER WING

## PARAMETRIC DATA

ALPHA = 40.00 BETA = -2.000 ELEVTR = .0000 SPDBRK = .0000  
BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
19	8.000	3.727	40.09	2.000	158.0	362.2	.8800-01	1350.	97.90	3.957	3878.	.7572-04
20	8.000	3.720	40.13	2.000	158.0	361.5	.8800-01	1351.	97.90	3.953	3879.	.7560-04
21	8.000	3.727	40.12	2.100	158.0	362.4	.8800-01	1351.	97.90	3.958	3878.	.7573-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR R =
19	.7879-07	.4918-01	0.0175
20	.7885-07	.4916-01	.2103-01
21	.7879-07	.4918-01	.2103-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	K/HREF (TAW)	H(19TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
20	.25000	.85000-01	938.00	.1300-02	.1100-02	.1300-02	.6324-04	.5269-04	.6324-04	.4300-01	.3170	541.4
20	.25000	.13500	939.00	.7000-03	.6000-03	.7000-03	.3618-04	.3013-04	.3618-04	.2400-01	.1090	542.1
20	.25000	.22500	940.00	.9000-03	.8000-03	.9000-03	.4657-04	.3895-04	.4657-04	.3100-01	.8700-01	543.7
20	.40000	.50000-01	941.00	.3300-01	.2730-01	.3300-01	.1622-02	.1344-02	.1622-02	1.061	9.369	562.1
20	.40000	.20000	942.00	.1920-01	.1500-01	.1920-01	.9462-03	.7854-03	.9462-03	.6250	4.610	556.2
20	.40000	.40000	943.00	.1000-02	.8000-03	.1000-02	.4778-04	.3970-04	.4778-04	.3200-01	.2610	552.5
20	.40000	.60000	944.00	.5000-03	.4000-03	.5000-03	.2391-04	.1987-04	.2391-04	.1600-01	.1600	552.2
20	.40000	.95000	945.00	.4700-02	.3900-02	.4700-02	.2315-03	.1935-03	.2315-03	.1540	1.372	549.3
20	.60000	.25000-01	946.00	.1213	.9800-01	.1213	.5955-02	.4655-02	.5955-02	3.566	69.59	618.6
20	.60000	.50000-01	947.00	.1150	.9460-01	.1150	.5955-02	.4655-02	.5955-02	3.543	42.86	589.8
20	.60000	.10000*00	948.00	.5650-01	.4690-01	.5660-01	.2785-02	.2307-02	.2785-02	1.817	16.04	563.8
20	.60000	.20000	949.00	.4550-01	.3780-01	.4560-01	.2242-02	.1853-02	.2242-02	1.466	11.16	562.3
20	.60000	.40000	950.00	.5000-02	.4200-02	.5000-02	.2479-03	.2059-03	.2479-03	1.640	1.399	554.2
20	.60000	.60000	951.00	.8000-02	.6600-02	.8000-02	.3924-03	.3250-03	.3924-03	.2600	2.308	553.3
20	.60000	.80000	952.00	.2400-02	.2000-02	.2400-02	.1196-03	.9343-04	.1196-03	.8000-01	.6330	548.9
20	.60000	.95000	953.00	.8200-02	.6200-02	.9900-02	.4872-03	.4551-03	.4872-03	.3250	3.800	549.2
20	.70000	.20000	954.00	.4700-01	.3690-01	.4700-01	.2311-02	.1914-02	.2311-02	1.508	12.32	563.8

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(RV1U07)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAN) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R SEC	TW DEG. R
20	.70000	.40000	955.00	.4800-01	.3980-01	.4800-01	.2360-02	.1956-02	.2360-02	1.543	12.61	562.7
20	.70000	.90000	955.00	.6600-02	.5500-02	.6600-02	.3233-03	.2690-03	.3233-03	.2160	1.780	547.7
20	.75000	.10000+00	957.00	.1623	.1340	.1628	.6005-02	.6597-02	.6005-02	5.028	40.58	588.2
20	.75000	.20000	958.00	.6330-01	.6930-01	.8330-01	.4125-02	.3409-02	.4125-02	2.654	23.31	573.0
20	.75000	.40000	959.00	.2750-01	.2230-01	.2750-01	.1354-02	.1124-02	.1354-02	.6910	7.610	556.3
20	.75000	.60000	960.00	.4940-01	.4100-01	.4940-01	.2431-02	.2013-02	.2431-02	1.585	13.45	564.2
20	.75000	.90000	962.00	.7400-02	.6200-02	.7400-02	.3657-03	.3043-03	.3657-03	.2450	2.015	547.5
20	.80000	.90000	963.00	.8100-02	.6700-02	.8100-02	.3958-03	.3294-03	.3958-03	.2660	2.074	545.3
20	.90000	.20000	964.00	.5610-01	.4810-01	.5810-01	.2854-02	.2356-02	.2854-02	1.870	16.52	561.1
20	.90000	.40000	965.00	.4570-01	.3790-01	.4570-01	.2248-02	.1866-02	.2248-02	1.482	13.12	557.3
20	.95000	.40000	967.00	.6280-01	.5210-01	.6280-01	.3090-02	.2561-02	.3090-02	2.025	14.91	561.0
20	.95000	.80000	968.00	.6000-02	.5000-02	.6000-02	.2955-03	.2460-03	.2955-03	.1980	1.524	544.8

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UPPER WING

OH-493 (AEDC V41B-57A) ORBITER UPPER WING

(RV1U08)

## PARAMETRIC DATA

ALPHA = 45.00 BETA = .0000 ELEVTR = .0000 SPDRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
187	7.900	.5170	45.08	.0000	180.0	105.3	.1200-01	1269.	94.10	.5110	3755.	.1043-04
188	7.900	.5330	45.08	.0000	180.0	108.8	.1200-01	1271.	94.30	.5280	3758.	.1076-04
189	7.900	.5601	45.11	.0000	180.0	114.4	.1300-01	1271.	94.30	.5550	3759.	.1131-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R	ST FR R =
187	.7577-07	.1748-01	.5630-01	0.0175
188	.7568-07	.1778-01	.5544-01	
189	.7591-07	.1823-01	.5408-01	

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
188	.25000	.25000-01	938.00	.3000-02	.2500-02	.3000-02	.5405-04	.4476-04	.5405-04	.3300-01	.2470	531.3
188	.25000	.13500	939.00	.1500-02	.1200-02	.1500-02	.2631-04	.2220-04	.2631-04	.1600-01	.7400-01	531.2
188	.25000	.22500	940.00	.2400-02	.2000-02	.2400-02	.4230-04	.3502-04	.4230-04	.2600-01	.7300-01	531.8
188	.40000	.50000-01	941.00	.7700-02	.6400-02	.7700-02	.1365-03	.1129-03	.1365-03	.8300-01	.7450	534.0
188	.40000	.27000	942.00	.3500-02	.2900-02	.3600-02	.6314-04	.5225-04	.6314-04	.3800-01	.2870	534.1
188	.40000	.40000	943.00	.1300-02	.1000-02	.1300-02	.2225-04	.1841-04	.2225-04	.1400-01	.1120	534.2
188	.40000	.60000	944.00	.6000-03	.7000-03	.8000-03	.1403-04	.1161-04	.1403-04	.9000-02	.8700-01	533.5
188	.60000	.25000-01	945.00	.2000-02	.1600-02	.2000-02	.3515-04	.2911-04	.3515-04	.2200-01	.1930	530.7
188	.60000	.40000	946.00	.7210-01	.5940-01	.7210-01	.1282-02	.1055-02	.1282-02	.7620	15.39	549.2
188	.60000	.50000-01	947.00	.6280-01	.5190-01	.6280-01	.1116-02	.9218-03	.1116-02	.6720	8.330	541.5
188	.60000	.10000-00	948.00	.3020-01	.2500-01	.3020-01	.5372-03	.4442-03	.5372-03	.260	2.917	536.6
188	.60000	.20000	949.00	.1280-01	.1060-01	.1280-01	.2282-03	.1888-03	.2282-03	.3390	1.071	535.5
186	.60000	.40000	950.00	.1410-01	.1170-01	.1410-01	.2509-03	.2077-03	.2509-03	.1530	1.320	532.9
188	.60000	.60000	951.00	.2400-02	.2000-02	.2400-02	.4275-04	.3539-04	.4275-04	.2600-01	.2340	533.2
188	.60000	.85000	952.00	.2100-02	.1800-02	.2100-02	.3774-04	.3125-04	.3774-04	.2300-01	.1850	530.9
188	.60000	.95000	953.00	.6500-02	.5400-02	.6500-02	.1152-03	.9545-04	.1152-03	.7100-01	.8340	530.8
188	.70000	.20000	954.00	.1200-01	.9900-02	.1200-01	.2135-03	.1767-03	.2135-03	.1300	1.078	534.8



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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(OTO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
188	.70000	.40000	955.00	.4600-02	.3800-02	.4600-02	.8203-04	.6788-04	.8203-04	.5000-01	.4150	533.8
188	.70000	.90000	956.00	.2900-02	.2400-02	.2900-02	.5207-04	.4315-04	.5207-04	.3200-01	.2660	528.9
188	.75000	.10000+00	957.00	.3250-01	.2690-01	.3250-01	.5781-03	.4783-03	.5781-03	.3520	2.920	534.4
188	.75000	.20000	958.00	.1820-01	.1510-01	.1820-01	.3238-03	.2679-03	.3238-03	.1970	1.766	534.5
188	.75000	.40000	959.00	.6300-02	.5200-02	.6300-02	.1115-03	.9225-04	.1115-03	.6800-01	.5860	533.2
188	.75000	.60000	960.00	.3000-02	.2400-02	.3000-02	.5247-04	.4344-04	.5247-04	.3200-01	.2770	532.0
188	.80000	.90000	962.00	.3600-02	.3000-02	.3600-02	.6379-04	.5484-04	.6379-04	.3900-01	.3260	528.8
188	.90000	.20000	963.00	.3100-02	.2600-02	.3100-02	.5484-04	.4546-04	.5484-04	.3400-01	.2650	528.1
188	.90000	.40000	964.00	.2560-01	.2120-01	.2560-01	.4549-03	.3766-03	.4549-03	.2780	2.490	532.8
188	.90000	.60000	965.00	.9800-02	.8100-02	.9800-02	.1749-03	.1446-03	.1749-03	.1070	.9600	531.3
188	.95000	.40000	967.00	.2510-01	.1910-01	.2510-01	.4109-03	.3403-03	.4109-03	.2520	1.880	531.4
188	.95000	.60000	968.00	.2600-02	.2100-02	.2600-02	.4582-04	.3798-04	.4582-04	.2800-01	.2180	528.2

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U08)

## UPPER WING

## PARAMETRIC DATA

ALPHA = 45.00 BETA = .0000 ELEVTR = .0000 SPD8RK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V F/SEC	RHO SLUGS /FT <sup>3</sup>
160	7.940	45.12	.0000	180.0	210.2	.2300-01	1261.	92.70	.9080	3745.	.2047-04
161	7.940	45.09	.0000	180.0	209.8	.2300-01	1262.	92.70	.9960	3747.	.2041-04
162	7.940	45.11	.0000	180.0	211.4	.2300-01	1262.	92.80	1.003	3747.	.2056-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR P =
160	7.459-07	.2470-01	.2470-01	0.0175
161	7.467-07	.2470-01	.2470-01	0.0175
162	7.467-07	.2447-01	.2447-01	0.0175

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2V/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19TO BTU/ R FT <sup>2</sup> SEC	H1TO BTU/ R FT <sup>2</sup> SEC	H1TAW BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TW DEG. R
161	.25000	.85000-01	938.00	.2700-02	.2200-02	.2700-02	.6520-04	.5379-04	.6520-04	.3900-01	.2890	540.9
161	.25000	.13500	939.00	.1000-02	.8000-03	.1000-02	.2466-04	.2035-04	.2466-04	.1500-01	.6500-01	541.0
161	.25000	.22500	940.00	.3300-02	.2700-02	.3300-02	.7372-04	.6576-04	.7372-04	.4700-01	.1320	541.3
161	.40000	.50000-01	941.00	.9500-02	.7900-02	.9500-02	.2325-03	.1916-03	.2325-03	.1370	1.222	545.9
161	.40000	.20000	942.00	.4700-02	.3900-02	.4700-02	.1157-03	.9530-04	.1157-03	.6800-01	.5070	545.1
161	.40000	.40000	943.00	.1300-02	.1100-02	.1300-02	.3124-04	.2574-04	.3124-04	.1800-01	.1520	544.6
161	.40000	.60000	944.00	.1800-02	.1500-02	.1800-02	.4310-04	.3552-04	.4310-04	.2600-01	.2580	544.0
161	.60000	.25000-01	945.00	.3100-02	.2500-02	.3100-02	.6139-04	.6139-04	.7440-04	.4400-01	.3950	540.2
161	.60000	.50000-01	946.00	.7680-01	.6280-01	.7680-01	.1872-02	.1534-02	.1872-02	1.072	21.51	563.2
161	.60000	.10000-01	947.00	.6690-01	.5500-01	.6690-01	.1631-02	.1340-02	.1631-02	.9490	11.68	554.3
161	.60000	.20000-01	948.00	.3390-01	.2550-01	.3390-01	.7540-03	.6203-03	.7540-03	.4440	3.948	547.3
161	.60000	.40000	949.00	.1570-01	.1220-01	.1570-01	.3826-03	.3151-03	.3826-03	.2260	1.730	546.4
161	.60000	.60000	950.00	.5000-02	.4400-02	.5000-02	.1312-03	.1081-03	.1312-03	.7800-01	.6550	544.3
161	.60000	.80000	951.00	.2200-02	.1800-02	.2200-02	.5424-04	.4471-04	.5424-04	.3200-01	.2880	543.6
161	.60000	.95000	952.00	.2700-02	.2200-02	.2700-02	.6829-04	.5469-04	.6829-04	.3900-01	.3140	541.1
161	.60000	.95000	953.00	.7600-02	.6300-02	.7600-02	.1856-03	.1432-03	.1856-03	.1110	1.299	540.3
161	.75000	.20000	954.00	.1440-01	.1190-01	.1440-01	.3522-03	.2902-03	.3522-03	.2080	1.714	545.7

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-493 (AEDC V41B-57A) ORBITER UPPER WING

(RV1U08)

P/N NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	L/HREF R=1.0	H/HREF (TAW)	H(9T0) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(11A) BTU/ R F12SEC	QOOT BTU/ R F12SEC	DTWOT DEG. R /SEC	TW DEG. R
161	.70000	.40000	955.00	.7000-02	.5800-02	.7000-02	.1704-03	.1404-03	.1704-03	.1010	.8310	544.5
151	.70000	.90000	956.00	.3300-02	.2700-02	.3300-02	.8050-04	.6645-04	.8050-04	.4800-01	.3970	539.1
151	.75000	.10000+00	957.00	.4500-01	.3760-01	.4560-01	.1112-02	.9163-03	.1112-02	.6550	5.395	547.2
161	.75000	.20000	958.00	.2740-01	.2260-01	.2740-01	.1682-03	.5504-03	.1682-03	.3940	3.508	546.1
161	.75000	.40000	959.00	.6800-02	.5600-02	.6600-02	.1657-03	.1365-03	.1657-03	.9800-01	.8400	544.1
161	.75000	.60000	960.00	.3400-02	.2800-02	.3400-02	.2239-04	.6810-04	.8259-04	.4900-01	.4200	542.6
161	.75000	.90000	962.00	.5100-02	.4200-02	.5100-02	.1234-03	.1019-03	.1234-03	.7400-01	.6100	539.9
161	.80000	.90000	963.00	.4300-02	.3600-02	.4300-02	.1059-03	.8719-04	.1059-03	.6300-01	.4960	538.6
161	.90000	.20000	964.00	.4640-01	.3980-01	.4640-01	.1180-02	.9715-03	.1180-02	.6940	6.176	547.5
161	.90000	.40000	965.00	.2000-01	.1650-01	.2000-01	.4681-03	.4024-03	.4681-03	.2890	2.578	543.4
161	.90000	.40000	967.00	.3730-01	.3070-01	.3730-01	.1562-03	.7455-03	.1562-03	.5370	3.989	544.4
161	.95000	.60000	968.00	.5500-02	.4600-02	.5500-02	.1352-03	.1116-03	.1352-03	.8100-01	.6210	539.1

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1U08)

## UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

## PARAMETRIC DATA

ALPHA = 45.03 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0003 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
133	7.970	1.529	45.14	.0000	180.0	319.8	.3400-01	1271.	92.80	1.493	3762.	.3036-04
134	7.970	1.531	45.12	.0000	180.0	322.0	.3400-01	1276.	93.10	1.503	3768.	.3046-04
135	7.970	1.518	45.11	.0000	180.0	320.7	.3400-01	1280.	93.40	1.497	3774.	.3024-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	ST FR R =
133	.7470-07	.2989-01	0.0175
134	.7496-07	.3001-01	.3297-01
135	.7519-07	.2997-01	.3309-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISTO) BTU/ R FT2SEC	H(ITO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
134	.25000	.85000-01	938.00	.2400-02	.2000-02	.2400-02	.7172-04	.5928-04	.7172-04	.4400-01	.3240	540.4
134	.25000	.13500	939.00	.1200-02	.1000-02	.1200-02	.3509-04	.2901-04	.3509-04	.2100-01	.9500-01	540.6
134	.25000	.22500	940.00	.1100-02	.9000-03	.1100-02	.3284-04	.2713-04	.3284-04	.2000-01	.5600-01	541.8
134	.40000	.50000-01	941.00	.1510-01	.1250-01	.1510-01	.1544-03	.3747-03	.1544-03	.2730	2.424	548.5
134	.40000	.20000	942.00	.1200-01	.9000-02	.1200-01	.3587-03	.2959-03	.3587-03	.2160	1.598	547.3
134	.40000	.40000	943.00	.1200-02	.1000-02	.1200-02	.3693-04	.3048-04	.3693-04	.2200-01	.1830	545.8
134	.40000	.60000	944.00	.8000-03	.7000-03	.8000-03	.2499-04	.2063-04	.2499-04	.1500-01	.1530	545.0
134	.40000	.95000	945.00	.3400-02	.2800-02	.3400-02	.1028-03	.8492-04	.1028-03	.6200-01	.5570	541.2
134	.60000	.25000-01	946.00	.9460-01	.6920-01	.9460-01	.2533-02	.2078-02	.2533-02	1.461	29.17	572.7
134	.60000	.50000-01	947.00	.7300-01	.6000-01	.7300-01	.2207-02	.1814-02	.2207-02	1.299	15.95	560.1
134	.60000	.10000-00	948.00	.3640-01	.3000-01	.3640-01	.1093-03	.6555-03	.1093-03	.6530	5.801	550.7
134	.60000	.20000	949.00	.2650-01	.2180-01	.2650-01	.7951-03	.6555-03	.7951-03	.4760	3.649	549.3
134	.60000	.40000	950.00	.1300-02	.1100-02	.1300-02	.3825-04	.3157-04	.3825-04	.2300-01	.1970	545.4
134	.60000	.60000	951.00	.3300-02	.2700-02	.3300-02	.9791-04	.8082-04	.9791-04	.5900-01	.5260	545.1
134	.60000	.80000	952.00	.3200-02	.3200-02	.3800-02	.1151-03	.9508-04	.1151-03	.7000-01	.5550	542.6
134	.60000	.95000	953.00	.8300-02	.6500-02	.8300-02	.2493-03	.2060-03	.2493-03	.1510	1.775	541.9
134	.70000	.20000	954.00	.2310-01	.1900-01	.2310-01	.6931-03	.5714-03	.6931-03	.4150	3.417	549.3

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DATE 25 AUG 78

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1U003)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
134	73000	.40000	955.00	.1350-01	.1110-01	.1350-01	.4055-03	.3345-03	.4055-03	.2440	2.008	547.4
134	70000	.50000	955.00	.3500-02	.2900-02	.3500-02	.1040-03	.8599-04	.1040-03	.6300-01	.5230	540.5
134	75000	.10000+00	957.00	.7120-01	.6000-01	.7280-01	.6185-02	.1799-02	.2185-02	1.298	10.65	554.6
134	75000	.20000	959.00	.4520-01	.3730-01	.4520-01	.1357-02	.1118-02	.1357-02	.8110	7.198	551.1
134	75000	.40000	959.00	.1480-01	.1220-01	.1480-01	.4433-03	.3657-03	.4433-03	.2670	2.282	546.7
134	75000	.60000	960.00	.1720-01	.1420-01	.1720-01	.5173-03	.4268-03	.5173-03	.3110	2.661	547.2
134	75000	.50000	962.00	.4300-02	.3500-02	.4300-02	.1285-03	.1062-03	.1285-03	.7900-01	.6460	540.4
134	80000	.90000	963.00	.5700-02	.4700-02	.5700-02	.1706-03	.1410-03	.1706-03	.1040	.8130	539.9
134	90000	.20000	964.00	.4670-01	.3850-01	.4670-01	.1400-02	.1154-02	.1400-02	.8370	7.431	550.8
134	90000	.40000	965.00	.2230-01	.2710-01	.3290-01	.9869-03	.8142-03	.9859-03	.5940	5.282	546.9
134	95000	.40000	967.00	.7680-01	.6480-01	.7680-01	.2364-02	.1945-02	.2364-02	1.402	10.35	555.1
134	95000	.80000	969.00	.4900-02	.4000-02	.4900-02	.1456-03	.1204-03	.1456-03	.8900-01	.6820	540.2

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

DATE 25 AUG 76

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

UPPER WING

PARAMETRIC DATA

ALPHA = 45.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
106	7.980	1.999	45.03	.0000	180.0	429.1	.4500-01	1291.	94.00	1.991	3790.	.3989-04
107	7.980	2.021	45.10	.0000	180.0	433.4	.4500-01	1290.	93.90	2.011	3789.	.4032-04
108	7.980	2.010	45.10	.0000	180.0	431.4	.4500-01	1290.	93.90	2.002	3790.	.4012-04

RUN NUMBER	MU	HREF BTU/ R FT2SEC	ST FR R =
106	.7565-07	.3461-01	0.0175
107	.7558-07	.3478-01	.2868-01
108	.7562-07	.3470-01	.2876-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTI/OT DEG. R /SEC	TW DEG. R
107	.25000	.85000-01	938.00	.2600-02	.2100-02	.2600-02	.8871-04	.7348-04	.8871-04	.5500-01	.4110	538.0
107	.25000	.13500	939.00	.6000-03	.5000-03	.6000-03	.2153-04	.1784-04	.2153-04	.1300-01	.6000-01	538.0
107	.25000	.12500	940.00	.1200-02	.1000-02	.1200-02	.4172-04	.3455-04	.4172-04	.2600-01	.7200-01	538.6
107	.40000	.50000-01	941.00	.2810-01	.2320-01	.2810-01	.9787-03	.8084-03	.9787-03	.5990	5.327	548.5
107	.40000	.20000	942.00	.1760-01	.1450-01	.1760-01	.6119-03	.5060-03	.6119-03	.3770	2.796	545.0
107	.40000	.40000	943.00	.1400-02	.1100-02	.1400-02	.4826-04	.3992-04	.4826-04	.3000-01	.2460	543.4
107	.40000	.90000	944.00	.8000-03	.7000-03	.8000-03	.2819-04	.2333-04	.2819-04	.1700-01	.1770	542.1
107	.40000	.95000	945.00	.4500-02	.3700-02	.4500-02	.1562-03	.1243-03	.1562-03	.9800-01	.8780	533.1
107	.60000	.20000-01	946.00	.6800-01	.5500-01	.6800-01	.2367-02	.1943-02	.2367-02	.1400	28.00	569.0
107	.60000	.50000-01	947.00	.6550-01	.5390-01	.6550-01	.2277-02	.1876-02	.2277-02	1.373	16.87	557.8
107	.60000	.10000+00	948.00	.3790-01	.3130-01	.3790-01	.1319-02	.1089-02	.1319-02	.8060	7.163	549.6
107	.60000	.20000	949.00	.2580-01	.2130-01	.2580-01	.6967-03	.7424-03	.6967-03	.5500	4.220	548.1
107	.60000	.40000	950.00	.3500-02	.3100-02	.3500-02	.1311-03	.1085-03	.1311-03	.8100-01	.6940	543.4
107	.60000	.60000	951.00	.4200-02	.3500-02	.4200-02	.1457-03	.1205-03	.1457-03	.9000-01	.8010	544.0
107	.60000	.85000	952.00	.4600-02	.3600-02	.4600-02	.1596-03	.1322-03	.1596-03	.9900-01	.7930	538.1
107	.60000	.35000	953.00	.1050-01	.8700-02	.1050-01	.3659-03	.3033-03	.3659-03	.2290	2.694	535.4
107	.70000	.20000	954.00	.2330-01	.2420-01	.2330-01	.1018-02	.8406-03	.1018-02	.6220	5.120	549.4

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITTER UPPER WING (RV1U08)

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AN) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
107	.70000	.40000	955.00	.1650-01	.1360-01	.1650-0	.5745-03	.4747-03	.5745-03	.3530	2.905	546.8
107	.70000	.90000	956.00	.6200-02	.5200-02	.6200-02	.2164-03	.1754-03	.2164-03	.1350	1.120	535.7
107	.75000	.10000+00	957.00	.7620-01	.6280-01	.7620-0	.2651-02	.2165-02	.2651-02	1.605	13.16	555.3
107	.75000	.20000	958.00	.5840-01	.4820-01	.5840-0	.2031-02	.1676-02	.2031-02	1.235	10.95	552.8
107	.75000	.40000	959.00	.2330-01	.1970-01	.2390-0	.8301-03	.6858-03	.8301-03	.5090	4.350	547.9
107	.75000	.60000	960.00	.2100-01	.1730-01	.2100-0	.7292-03	.6023-03	.7292-03	.4460	3.817	548.4
107	.75000	.90000	962.00	.6600-02	.5500-02	.6600-02	.2305-03	.1910-03	.2305-03	.1440	1.192	536.1
107	.80000	.50000	963.00	.9300-02	.7700-02	.9300-02	.3248-03	.2692-03	.3248-03	.2030	1.591	536.3
107	.90000	.20000	964.00	.5850-01	.4830-01	.5950-0	.2035-02	.1679-02	.2036-02	1.236	10.96	553.6
107	.90000	.40000	965.00	.4000-01	.3310-01	.4000-0	.1392-02	.1150-02	.1392-02	.8520	7.572	548.7
107	.95000	.60000	967.00	.6040-01	.4930-01	.6040-0	.2101-02	.1734-02	.2101-02	1.280	9.467	551.5
107	.95000	.80000	968.00	.6000-02	.5000-02	.6000-02	.2091-03	.1732-03	.2091-03	.1300	1.004	537.7

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U08)

UPPER WING

## PARAMETRIC DATA

ALPHA = 45.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
 BDFLAP = .0030 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
82	7.990	2.509	45.10	.0000	180.0	548.2	.5700-01	1303.	94.60	2.530	3808.	.5019-04
83	7.990	2.497	45.11	.0000	180.0	546.6	.5600-01	1304.	94.70	2.522	3811.	.4998-04
84	7.990	2.496	45.13	.0000	180.0	547.3	.5700-01	1306.	94.90	2.526	3813.	.4999-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
82	.7618-07	.2308-01	.2308-01	0.0175
83	.7627-07	.3903-01	.2579-01	.2579-01
84	.7637-07	.3906-01	.2579-01	.2579-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT <sup>2</sup> SEC	H(1TO) BTU/ R FT <sup>2</sup> SEC	H(TAW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TH DEG. R
83	.25000	.85000-01	938.00	.2600-02	.2100-02	.2600-02	.1005-03	.8336-04	.1005-03	.6400-01	.4750	539.0
83	.25000	.13500	939.00	.1000-02	.8000-03	.1000-02	.3961-04	.3286-04	.3961-04	.2500-01	.1120	538.9
83	.25000	.22500	940.00	.1300-02	.1100-02	.1300-02	.5171-04	.4209-04	.5171-04	.3300-01	.9200-01	539.8
83	.40000	.50000-01	941.00	.3990-01	.2960-01	.3580-01	.1338-02	.1155-02	.1338-02	.6660	7.677	554.5
83	.40000	.20000	942.00	.2070-01	.1720-01	.2070-01	.8395-03	.6697-03	.8055-03	.5060	3.748	548.9
83	.40000	.40000	943.00	.1400-02	.1200-02	.1400-02	.5493-04	.4548-04	.5493-04	.3400-01	.2840	546.3
83	.40000	.60000	944.00	.7000-03	.6000-03	.7000-03	.2743-04	.2272-04	.2743-04	.1700-01	.1750	545.3
83	.40000	.55000	945.00	.3800-02	.3800-02	.4600-02	.1503-03	.1501-03	.1809-03	.1150	1.029	537.5
83	.40000	.25000-01	946.00	.5610-01	.5610-01	.6830-01	.2666-02	.2188-02	.2666-02	1.594	31.77	576.0
83	.40000	.60000-01	947.00	.6380-01	.5170-01	.6280-01	.2449-02	.2018-02	.2449-02	1.495	18.32	563.7
83	.40000	.10000-00	948.00	.3900-01	.3220-01	.3900-01	.1521-02	.1256-02	.1521-02	.9420	8.351	554.4
83	.40000	.20000	949.00	.3550-01	.3200-01	.3550-01	.1513-02	.1249-02	.1513-02	.9350	7.143	555.7
83	.40000	.40000	950.00	.4300-02	.3500-02	.4300-02	.1669-03	.1381-03	.1669-03	.1040	.8330	548.5
83	.40000	.60000	951.00	.3200-02	.2700-02	.3200-02	.1254-03	.1036-03	.1254-03	.7900-01	.6990	547.0
83	.40000	.85000	952.00	.5900-02	.4900-02	.5900-02	.2297-03	.1904-03	.2297-03	.1450	1.155	542.5
83	.40000	.95000	953.00	.1150-01	.9500-02	.1150-01	.4494-03	.3726-03	.4494-03	.2850	3.342	540.7
83	.40000	.20000	954.00	.3560-01	.2940-01	.3560-01	.1390-02	.1148-02	.1390-02	.6590	7.049	555.8

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1U08)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(1TO) BTU/ R F12SEC	H(1TO) BTU/ R F12SEC	H(1AW) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWDT DEG. R /SEC	TW DEG. R
83	.70000	.40000	955.00	.1890-01	.1550-01	.1890-0	.7359-03	.6054-03	.7359-03	.4580	3.784	551.7
83	.70000	.90000	956.00	.7130-02	.5900-02	.7100-02	.2752-03	.2262-03	.2752-03	.1740	1.441	540.5
83	.75000	.10000+00	957.00	.8050-01	.6640-01	.8050-0	.3143-02	.2591-02	.3143-02	1.924	15.73	562.0
83	.75000	.20000	958.00	.6810-01	.5520-01	.6810-0	.2657-02	.2192-02	.2657-02	1.632	14.43	559.8
83	.75000	.40000	959.00	.2220-01	.1840-01	.2220-0	.8579-03	.7174-03	.8579-03	.5400	4.604	552.2
83	.75000	.60000	960.00	.2830-01	.2340-01	.2830-0	.1103-02	.9114-03	.1103-02	.6840	5.828	554.2
83	.75000	.80000	961.00	.7230-02	.5900-02	.7200-02	.2797-03	.2330-03	.2797-03	.1770	1.465	540.5
83	.80000	.90000	962.00	.9400-02	.7800-02	.9400-02	.3854-03	.3030-03	.3854-03	.2310	1.810	541.1
83	.90000	.20000	964.00	.5470-01	.5330-01	.5470-0	.2525-02	.2022-02	.2525-02	1.546	13.66	561.6
83	.90000	.40000	965.00	.4640-01	.3530-01	.4640-0	.1811-02	.1455-02	.1811-02	1.122	9.945	554.4
83	.95000	.40000	967.00	.1111	.9160-01	.1111	.4335-02	.3574-02	.4335-02	2.651	19.50	562.7
83	.95000	.60000	968.00	.7000-02	.5600-02	.7000-02	.2730-03	.2263-03	.2730-03	.1730	1.327	542.0

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

UPPER WING

PARAMETRIC DATA

ALPHA = 45.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BOFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDIT ONS\*\*\*

RUN NUMBER	MACH	PN/L X10 6	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
61	7.990	2.932	45.11	.0000	180.0	575.7	.7000-01	1351.	98.10	3.123	3879.	.5973-04
62	7.990	2.951	45.14	.0000	180.0	676.1	.7000-01	1342.	97.50	3.120	3865.	.6010-04
63	7.990	2.968	45.12	.0000	180.0	677.5	.7000-01	1341.	97.40	3.126	3864.	.6025-04

RUN NUMBER	MU	LB-SEC /FT2	H/REF BTU/ R	ST FR R =
61	.7902-07	.4359-01	.4359-01	0.0175
62	.7847-07	.4362-01	.4362-01	.2368-01
63	.7844-07	.4366-01	.4366-01	.2356-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H19T01 BTU/ R FT2SEC	H10T01 BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. P /SEC	TW DEG. R
62	.25000	.85000-01	938.00	.2400-02	.2000-02	.2400-02	.1042-03	.8663-04	.1042-03	.6900-01	.5120	545.3
62	.25000	.13500	939.00	.8000-03	.6000-03	.8000-03	.3282-04	.2729-04	.3282-04	.2200-01	.9700-01	545.4
62	.25000	.25000	940.00	.1500-02	.1200-02	.1500-02	.6389-04	.5310-04	.6389-04	.4200-01	.1170	547.0
62	.40000	.50000-01	941.00	.5230-01	.4320-01	.5230-01	.2283-02	.1855-02	.2283-02	.1457	12.82	569.3
62	.40000	.20000	942.00	.2590-01	.2140-01	.2590-01	.1129-02	.9352-03	.1129-02	.7330	5.400	558.5
62	.40000	.40000	943.00	.1100-02	.9000-03	.1100-02	.4957-04	.4112-04	.4957-04	.3200-01	.2660	553.1
62	.40000	.60000	944.00	.7000-03	.6000-03	.7000-03	.3037-04	.2570-04	.3037-04	.2000-01	.2040	542.5
62	.40000	.90000	945.00	.4400-02	.3700-02	.4400-02	.1316-03	.1534-03	.1316-03	.1270	1.136	568.3
62	.60000	.20000-01	946.00	.6550-01	.5450-01	.6550-01	.2833-02	.2359-02	.2833-02	.1792	35.49	573.9
62	.60000	.50000-01	947.00	.4700-01	.3950-01	.4700-01	.2050-02	.1721-02	.2050-02	.1339	11.82	563.7
62	.60000	.10000-00	948.00	.4700-01	.3950-01	.4700-01	.1726-02	.1429-02	.1726-02	.1115	8.492	561.6
62	.60000	.20000	949.00	.5300-02	.4300-02	.5300-02	.6285-03	.1895-03	.6285-03	.1490	1.269	565.7
62	.60000	.40000	950.00	.7700-02	.6400-02	.7700-02	.3372-03	.2733-03	.3372-03	.2210	1.956	553.7
62	.60000	.60000	951.00	.2800-02	.2400-02	.2800-02	.1237-03	.1039-03	.1237-03	.8200-01	.6530	544.3
62	.60000	.80000	952.00	.1350-01	.1100-01	.1350-01	.5832-03	.4833-03	.5832-03	.3500	4.575	544.2
62	.70000	.20000	953.00	.3690-01	.3210-01	.3690-01	.1691-02	.1399-02	.1691-02	1.087	8.878	564.7

(RV1U08)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) OREITER UPPER WING

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PUM NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TM DEG. R
62	.70000	.40000	955.00	.6500-01	.2190-01	.2650-01	.1154-02	.9550-03	.1154-02	.7470	6.116	560.2
62	.70000	.90000	956.00	.6500-02	.5500-02	.6500-02	.2673-03	.2333-03	.2673-03	.1910	1.577	542.8
62	.75000	.10000	957.00	.6810-01	.7270-01	.6810-01	.3842-02	.3172-02	.3842-02	2.440	19.85	572.4
62	.75000	.20000	958.00	.7410-01	.6130-01	.7410-01	.3233-02	.2572-02	.3233-02	2.057	18.20	568.3
62	.75000	.40000	959.00	.2250-01	.1680-01	.2250-01	.9870-03	.8130-03	.9870-03	.6410	5.454	558.1
62	.75000	.60000	960.00	.2150-01	.1780-01	.2150-01	.9337-03	.7755-03	.9337-03	.6090	5.184	557.4
62	.75000	.80000	961.00	.6500-02	.5400-02	.6500-02	.2651-03	.2372-03	.2651-03	.1930	1.565	542.6
62	.80000	.90000	962.00	.7800-02	.6500-02	.7800-02	.3415-03	.2673-03	.3415-03	.2270	1.777	542.7
62	.90000	.20000	964.00	.6810-01	.7270-01	.6810-01	.3712-02	.3025-02	.3712-02	2.362	20.76	571.3
62	.90000	.40000	965.00	.6810-01	.7270-01	.6810-01	.2971-02	.2453-02	.2971-02	1.917	16.93	562.2
62	.95000	.40000	967.00	.6810-01	.6850-01	.6850-01	.7503-02	.2653-02	.7503-02	2.251	16.54	565.5
62	.95000	.80000	968.00	.5700-02	.4700-02	.5700-02	.2474-03	.2059-03	.2474-03	.1640	1.264	543.1

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U08)

## PARAMETRIC DATA

ALPHA = 45.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
BOFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
43	8.000	3.313	45.11	.0000	180.0	758.4	.7800-01	1341.	97.20	3.480	3864.	.6708-04
44	8.000	3.322	45.10	.0000	180.0	759.5	.7800-01	1340.	97.10	3.485	3862.	.6723-04
45	8.000	3.323	45.10	.0000	180.0	759.7	.7800-01	1340.	97.10	3.486	3863.	.6724-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR P =
43	.7822-07	.4608-01	0.0175
44	.7816-07	.4609-01	.2230-01
45	.7817-07	.4610-01	.2230-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(GTO) BTU/ R FT2SEC	H(GTO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
44	.25000	85000-01	938.00	.4000-02	.3300-02	.4000-02	.1839-03	.1530-03	.1639-03	.1620	.9070	542.4
44	.25000	.13500	939.00	.9000-03	.8000-03	.9000-03	.4321-04	.3594-04	.4321-04	.2900-01	.1280	543.0
44	.25000	.24500	940.00	.1400-02	.1100-02	.1400-02	.6291-04	.5231-04	.6291-04	.4200-01	.1160	544.2
44	.40000	.50000-01	941.00	.3000-01	.2900-01	.3600-01	.1658-02	.1373-02	.1658-02	1.057	9.426	562.1
44	.40000	.20000	942.00	.2000-01	.1800-01	.2000-01	.9316-03	.7723-03	.9316-03	.6070	4.486	554.1
44	.40000	.40000	943.00	.1700-02	.1400-02	.1700-02	.7679-04	.6376-04	.7679-04	.5000-01	.4140	550.1
44	.40000	.60000	944.00	.8000-03	.7000-03	.8000-03	.3593-04	.3055-04	.3593-04	.2400-01	.2450	549.2
44	.40000	.95000	945.00	.4000-02	.3700-02	.4000-02	.2046-03	.1701-03	.2046-03	.1350	1.207	544.0
44	.50000	.20000-01	946.00	.9000-01	.7400-01	.9000-01	.4678-02	.3849-02	.4678-02	2.523	35.21	585.1
44	.50000	.50000-01	947.00	.5710-01	.4700-01	.5710-01	.2633-02	.2182-02	.2633-02	1.698	15.00	561.0
44	.60000	.10000+00	948.00	.4900-01	.4100-01	.4900-01	.2279-02	.1833-02	.2279-02	1.472	11.22	559.7
44	.60000	.40000	949.00	.4200-02	.3500-02	.4200-02	.1952-03	.1630-03	.1952-03	.1290	1.100	549.6
44	.60000	.60000	951.00	.5800-02	.4800-02	.5800-02	.2671-03	.2218-03	.2671-03	.1750	1.559	549.1
44	.60000	.80000	952.00	.5500-02	.4600-02	.5500-02	.2587-03	.2150-03	.2587-03	.1710	1.358	545.3
44	.60000	.90000	953.00	.1400-01	.1200-01	.1400-01	.5801-03	.5552-03	.5801-03	.4480	5.249	546.7
44	.70000	.20000	954.00	.3780-01	.3140-01	.3780-01	.1744-02	.1445-02	.1744-02	1.13	9.267	557.4

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1U08)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	ZY/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
44	.70000	.40000	955.00	.3350-01	.2780-01	.3350-01	.1544-02	.1280-02	.1544-02	1.005	8.245	555.1
44	.73000	.90000	956.00	.1260-01	.1040-01	.1260-01	.5789-03	.4813-03	.5789-03	.3820	3.154	545.2
44	.75000	.10000+00	957.00	.1030	.8510-01	.1030	.4747-02	.3921-02	.4747-02	3.019	24.59	569.8
44	.75000	.20000	959.00	.7920-01	.6550-01	.7920-01	.3648-02	.3018-02	.3648-02	2.339	20.63	564.5
44	.75000	.40000	959.00	.2570-01	.2140-01	.2570-01	.1187-02	.5947-03	.1187-02	.7760	6.619	552.1
44	.75000	.60000	960.00	.5620-01	.4820-01	.5620-01	.2681-02	.2219-02	.2681-02	1.726	14.65	561.9
44	.75000	.90000	962.00	.1290-01	.1070-01	.1290-01	.5942-03	.4940-03	.5942-03	.3930	3.239	544.9
44	.80000	.90000	963.00	.1410-01	.1170-01	.1410-01	.6488-03	.5337-03	.6488-03	.4300	3.361	543.4
44	.90000	.20000	964.00	.5570-01	.4610-01	.5570-01	.2567-02	.2124-02	.2567-02	1.649	14.55	567.7
44	.90000	.40000	965.00	.4770-01	.3960-01	.4770-01	.2193-02	.1824-02	.2193-02	1.430	12.67	555.7
44	.95000	.40000	967.00	.9620-01	.8120-01	.9620-01	.4526-02	.3740-02	.4526-02	2.887	21.19	567.9
44	.95000	.80000	968.00	.7600-02	.6300-02	.7600-02	.3491-03	.2904-03	.3491-03	.2320	1.781	542.3

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U08)

## PARAMETRIC DATA

ALPHA = 45.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = .0300 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	P0 PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
22	8.000	3.747	45.11	.0000	180.0	864.2	.8500-01	1348.	97.70	3.966	3874.	.7605-04
23	8.000	3.747	45.15	.0000	180.0	862.7	.8800-01	1346.	97.50	3.959	3871.	.7601-04
24	8.000	3.731	45.12	.0000	180.0	859.3	.8800-01	1346.	97.60	3.943	3872.	.7569-04

RUN NUMBER	MU	LD-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
22	.7863-07		.4922-01	0.0175
23	.7853-07		.4916-01	.2098-01
24	.7855-07		.4907-01	.2103-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1GTO) BTU/ R FT2SEC	H1TO) BTU/ R FT2SEC	H1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	QDOT DEG. R /SEC	TW DEG. R
23	.25000	.85000-01	939.00	.2100-02	.1700-02	.2100-02	.1014-03	.8437-04	.1014-03	.6800-01	.5030	543.8
23	.25000	.13500	939.00	.1000-02	.8000-03	.1000-02	.4694-04	.3906-04	.4694-04	.3100-01	.1400	544.4
23	.25000	.22500	940.00	.1700-02	.1400-02	.1700-02	.8528-04	.7694-04	.8528-04	.5700-01	.1580	545.7
23	.40000	.50000-01	941.00	.3700-01	.3050-01	.3700-01	.1821-02	.1506-02	.1821-02	1.172	10.32	567.7
23	.40000	.20000	942.00	.2140-01	.1770-01	.2140-01	.1050-02	.8658-03	.1050-02	.6830	5.028	561.0
23	.40000	.40000	943.00	.1200-02	.1000-02	.1200-02	.5845-04	.4846-04	.5845-04	.3800-01	.3120	559.0
23	.40000	.60000	944.00	.8000-03	.6000-03	.8000-03	.3816-04	.3163-04	.3816-04	.2500-01	.2500	559.2
23	.40000	.95000	945.00	.5400-02	.4600-02	.5400-02	.2637-03	.2190-03	.2637-03	.1740	1.544	551.9
23	.60000	.25000-01	946.00	.9770-01	.7970-01	.9770-01	.4801-02	.3919-02	.4801-02	2.870	56.14	513.8
23	.60000	.50000-01	947.00	.9380-01	.7710-01	.9380-01	.4612-02	.3731-02	.4612-02	2.865	34.66	590.2
23	.60000	.10000-00	948.00	.5540-01	.4620-01	.5540-01	.2724-02	.2252-02	.2724-02	1.751	15.41	568.6
23	.60000	.20000	949.00	.4920-01	.3900-01	.4920-01	.2371-02	.1961-02	.2371-02	1.525	11.57	568.4
23	.60000	.40000	950.00	.6400-02	.5300-02	.6400-02	.3144-03	.2605-03	.3144-03	.2050	1.741	559.9
23	.60000	.60000	951.00	.9600-02	.8000-02	.9600-02	.4730-03	.3920-03	.4730-03	.3080	2.723	560.1
23	.60000	.85000	952.00	.4000-02	.3400-02	.4000-02	.1987-03	.1650-03	.1987-03	.1310	1.036	553.0
23	.60000	.95000	953.00	.1220-01	.1020-01	.1220-01	.6020-03	.4997-03	.6020-03	.3960	4.620	553.7
23	.70000	.20000	954.00	.4640-01	.3840-01	.4640-01	.2281-02	.1886-02	.2281-02	1.466	11.95	568.7

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AEDC VKF V41B-57A (OH-49B) COLLATION: DECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING (RV1U08)

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(ISTO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
23	70000	.40000	955.00	.4870-01	.4030-01	.4870-01	.2394-02	.1380-02	.2394-02	1.540	12.55	568.2
23	70000	.90000	955.00	.1410-01	.1170-01	.1410-01	.6949-03	.5773-03	.6949-03	.4590	3.775	550.8
23	75000	.16000+00	957.00	.1200	.9880-01	.1200	.5889-02	.4858-02	.5889-02	3.708	29.98	583.2
23	75000	.20000	958.00	.9990-01	.8240-01	.9990-01	.4910-02	.4049-02	.4910-02	3.108	27.22	578.6
23	75000	.40000	959.00	.3740-01	.3100-01	.3740-01	.1838-02	.1523-02	.1838-02	1.194	10.13	562.1
23	75000	.60000	960.00	.6900-01	.5610-01	.6900-01	.3342-02	.2760-02	.3342-02	2.136	18.04	572.3
23	75000	.80000	962.00	.1380-01	.1150-01	.1380-01	.6774-03	.5630-03	.6774-03	.4490	3.695	548.8
23	80000	.90000	963.00	.1460-01	.1220-01	.1460-01	.7187-03	.5978-03	.7187-03	.4780	3.733	546.2
23	90000	.20000	964.00	.4260-01	.3530-01	.4260-01	.2097-02	.1735-02	.2097-02	1.354	11.93	565.8
23	90000	.40000	965.00	.4570-01	.3780-01	.4570-01	.2245-02	.1860-02	.2245-02	1.464	12.94	559.4
23	95000	.40000	967.00	.9100-01	.7520-01	.9100-01	.4475-02	.3698-02	.4475-02	2.868	21.01	570.7
23	95000	.60000	968.00	.8000-02	.6700-02	.8000-02	.3946-03	.3285-03	.3946-03	.2640	2.026	543.4





DATE 25 AUG 75

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1U09)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(OTO) BTU/ R FT2SEC	H(OTO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
191	.70000	.90000	955.00	.2100-02	.1700-02	.2100-02	.3707-04	.3073-04	.3707-04	.2300-01	.1900	527.8
191	.75000	.10000+00	957.00	.2880-01	.2380-01	.2880-01	.5184-03	.4292-03	.5184-03	.3170	2.633	532.3
191	.75000	.20000	959.00	.1920-01	.1590-01	.1920-01	.3463-03	.2867-03	.3463-03	.2120	1.697	532.8
191	.75000	.40000	959.00	.5300-02	.4300-02	.5300-02	.9296-04	.7699-04	.9296-04	.5700-01	.4910	531.1
191	.75000	.60000	960.00	.3900-02	.3100-02	.3900-02	.6812-04	.5643-04	.6812-04	.4200-01	.3610	530.6
191	.75000	.90000	962.00	.3300-02	.2700-02	.3300-02	.5959-04	.4939-04	.5959-04	.3700-01	.3050	528.0
191	.80000	.90000	963.00	.3000-02	.2500-02	.3000-02	.5394-04	.4473-04	.5394-04	.3300-01	.2630	526.5
191	.90000	.20000	964.00	.1500-01	.1240-01	.1500-01	.2700-03	.2237-03	.2700-03	.1660	1.486	530.6
191	.90000	.40000	965.00	.1180-01	.9500-02	.1180-01	.2134-03	.1769-03	.2134-03	.1310	1.178	529.3
191	.95000	.40000	967.00	.2230-01	.1850-01	.2230-01	.4013-03	.3325-03	.4013-03	.2460	1.842	530.2
191	.95000	.80000	968.00	.3700-02	.3100-02	.3700-02	.6717-04	.5570-04	.6717-04	.4100-01	.3210	526.6

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) OPB TER UPPER WING

(RV1U09)

UPPER WING

## PARAMETRIC DATA

ALPHA = 50.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PC PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
163	7.940	50.12	.0000	180.0	209.1	.2200-01	1261.	92.70	.9920	3746.	.2036-04
164	7.940	50.08	.0000	180.0	208.3	.2200-01	1262.	92.70	.9890	3746.	.2027-04
165	7.940	50.09	.0000	180.0	208.6	.2200-01	1261.	92.70	.9900	3745.	.2031-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
163	7.942-07	2434-01	2434-01	0.0175
164	7.954-07	2429-01	2429-01	4.035-01
165	7.959-07	2431-01	2431-01	4.032-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2V/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF R=1.0	H19TO BTU/ R FT <sup>2</sup> SEC	H1TO BTU/ R FT <sup>2</sup> SEC	H1TAW BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTMOT DEG. R /SEC	TW DEG. R
164	25000	.85000-01	938.00	.2500-02	.2100-02	.2500-02	.6150-04	.5070-04	.6150-04	.3600-01	.2710	543.2
164	25000	.13500	939.00	.8000-03	.7000-03	.8000-03	.1951-04	.1951-04	.1951-04	.1200-01	.5200-01	543.2
164	25000	.22500	940.00	.3700-02	.3000-02	.3700-02	.8366-04	.7406-04	.8366-04	.5300-01	.1480	544.1
164	40000	.50000-01	941.00	.9600-02	.7900-02	.9600-02	.2335-03	.1922-03	.2335-03	.1370	1.216	549.5
164	40000	.20000	942.00	.4600-02	.3800-02	.4600-02	.1127-04	.9273-04	.1127-04	.6600-01	.4890	549.4
164	40000	.40000	943.00	.2000-02	.1700-02	.2000-02	.4878-04	.4014-04	.4878-04	.2900-01	.2350	549.0
164	40000	.60000	944.00	.1000-02	.9000-03	.1000-02	.2544-04	.2033-04	.2544-04	.1500-01	.1510	549.0
164	40000	.80000	945.00	.2600-02	.2200-02	.2600-02	.6426-04	.5322-04	.6426-04	.3800-01	.3370	546.3
164	60000	.25000-01	946.00	.5400-01	.4450-01	.5400-01	.1318-02	.1080-02	.1318-02	.7530	15.10	564.2
164	60000	.50000-01	947.00	.4610-01	.3700-01	.4610-01	.1119-02	.9190-03	.1119-02	.6480	7.962	557.1
164	60000	.75000-01	948.00	.1920-01	.1520-01	.1920-01	.4654-03	.3826-03	.4654-03	.2710	2.409	552.3
164	60000	.90000	949.00	.9500-02	.7800-02	.9500-02	.2312-03	.1901-03	.2312-03	.1350	1.033	551.6
164	60000	.40000	950.00	.1900-02	.1600-02	.1900-02	.4691-04	.3559-04	.4691-04	.2700-01	.2340	550.5
164	60000	.60000	951.00	.1700-02	.1400-02	.1700-02	.4250-04	.3497-04	.4250-04	.2500-01	.2210	550.1
164	60000	.85000	952.00	.2900-02	.2300-02	.2900-02	.6833-04	.5624-04	.6833-04	.4000-01	.3.90	548.2
164	60000	.95000	953.00	.7800-02	.6400-02	.7800-02	.1889-03	.1555-03	.1889-03	.1110	1.300	547.3
164	70000	.20000	954.00	.1400-01	.1150-01	.1400-01	.3395-03	.2791-03	.3395-03	.1980	1.625	553.0

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION CHECK

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(RV1U09)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(1970) BTU/ R FT2SEC	H(170) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
164	.70000	.40000	955.00	.8500-02	.7100-02	.8500-02	.2055-03	.1714-03	.2085-03	.1220	.9980	552.9
164	.70000	.90000	955.00	.2300-02	.1800-02	.2200-02	.5439-04	.4479-04	.5439-04	.3200-01	.2.40	546.8
164	.75000	.10000+00	957.00	.3080-01	.2530-01	.3580-01	.7488-03	.6155-03	.7488-03	.4360	3.581	553.2
164	.75000	.20000	959.00	.2620-01	.2160-01	.2620-01	.6373-03	.5236-03	.6373-03	.3700	3.283	554.4
164	.75000	.40000	959.00	.7900-02	.6500-02	.7900-02	.1930-03	.1536-03	.1930-03	.1130	.9600	552.5
164	.75000	.60000	960.00	.4900-02	.3500-02	.4900-02	.1155-03	.9510-04	.1155-03	.6800-01	.5770	550.9
164	.75000	.80000	962.00	.2300-02	.1500-02	.2300-02	.5075-04	.4673-04	.5075-04	.3300-01	.2750	546.9
164	.80000	.90000	963.00	.4600-02	.3500-02	.4600-02	.1125-03	.9258-04	.1125-03	.6600-01	.5180	546.5
164	.90000	.20000	964.00	.2330-01	.2410-01	.2330-01	.7112-03	.5873-03	.7112-03	.4130	3.662	554.7
164	.90000	.40000	965.00	.2070-01	.1650-01	.2010-01	.4879-03	.4012-03	.4879-03	.2850	2.529	551.6
154	.95000	.40000	967.00	.4050-01	.3330-01	.4050-01	.9838-03	.8085-03	.9838-03	.5720	4.230	553.8
164	.95000	.80000	968.00	.3500-02	.3200-02	.3500-02	.9441-04	.7773-04	.9441-04	.5600-01	.4260	547.3



DATE 25 AUG 76 AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITER UPPER WING

PARAMETRIC DATA

ALPHA = 50.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
109	7.980	50.11	.0000	432.1	.4500-01	.4500-01	1293.	94.10	2.005	3794.	.4009-04
110	7.980	50.11	.0000	433.9	.4500-01	.4500-01	1296.	94.30	2.014	3798.	.4019-04
111	7.980	50.07	.0000	434.2	.4500-01	.4500-01	1297.	94.40	2.015	3800.	.4015-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	HREF BTU/ R FT <sup>2</sup> SEC	ST FR R =
109	.7590-07	.3474-01	.0175
110	.7594-07	.3483-01	.2875-01
111	.7604-07	.3485-01	.2876-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NG	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H'/GTO BTU/ R FT <sup>2</sup> SEC	H'(TO) BTU/ R FT <sup>2</sup> SEC	H'(TAN) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWDT DEG. R /SEC	TW DEG. R
110	.25000	.85000-01	939.00	.2200-02	.1630-02	.2200-02	.7492-04	.6208-04	.7492-04	.4700-01	.3490	540.5
110	.25000	.13500	939.00	.8000-03	.6000-03	.8000-03	.2684-04	.2225-04	.2684-04	.1700-01	.7500-01	540.8
110	.25000	.22500	940.00	.1700-02	.1400-02	.1700-02	.5891-04	.4878-04	.5891-04	.3700-01	.1020	541.9
110	.40000	.50000-01	941.00	.3790-01	.3130-01	.3790-01	.1320-02	.1069-02	.1320-02	.8060	7.139	555.7
110	.40000	.20000	942.00	.2640-01	.2180-01	.2640-01	.9181-03	.7593-03	.9181-03	.5640	4.174	551.6
110	.40000	.40000	943.00	.1530-02	.1200-02	.1530-02	.5131-04	.4239-04	.5131-04	.3200-01	.2600	550.8
110	.40000	.60000	944.00	.3300-02	.2700-02	.3300-02	.1138-03	.9399-04	.1138-03	.7000-01	.7050	550.8
110	.40000	.95000	945.00	.3300-02	.3200-02	.3300-02	.1342-03	.1111-03	.1342-03	.8400-01	.7480	551.6
110	.60000	.25000-01	946.00	.4570-01	.3750-01	.4570-01	.1591-02	.1308-02	.1591-02	.9540	19.10	566.6
110	.60000	.50000-01	947.00	.4260-01	.3510-01	.4260-01	.1483-02	.1222-02	.1483-02	.8970	11.01	561.2
110	.60000	.10000+00	948.00	.3090-01	.2550-01	.3090-01	.1078-02	.8878-03	.1078-02	.6570	5.821	555.6
110	.60000	.20000	949.00	.2520-01	.2080-01	.2520-01	.8762-03	.7227-03	.8762-03	.5340	4.081	556.1
110	.60000	.40000	950.00	.5600-02	.4700-02	.5600-02	.1964-03	.1620-03	.1964-03	.1200	1.022	555.2
110	.60000	.60000	951.00	.7000-02	.5700-02	.7000-02	.2422-03	.1999-03	.2422-03	.1480	1.314	554.3
110	.60000	.85000	952.00	.4800-02	.4000-02	.4800-02	.1678-03	.1388-03	.1678-03	.1040	.8240	547.7
110	.60000	.95000	953.00	.1930-01	.9000-02	.1090-01	.3787-03	.3135-03	.3787-03	.2350	2.767	543.2
110	.70000	.20000	954.00	.3050-01	.2510-01	.3050-01	.1061-02	.8744-03	.1061-02	.6450	5.285	558.0

(RV1U09)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

DATE 25 AUG 76

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=C.9	H/HREF R=1.0	H/HREF (TAW)	H(ISTO) BTU/ R FT2SEC	H(ISTO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
110	.73000	.40000	955.00	.1960-01	.1620-01	.1960-01	.6842-03	.5840-03	.6842-03	.4160	3.410	557.8
110	.70000	.90000	956.00	.5400-02	.4500-02	.5400-02	.1873-03	.1551-03	.1873-03	.1170	.9640	542.7
110	.75000	.10000+20	957.00	.7510-01	.6180-01	.7510-01	.2615-02	.2153-02	.2615-02	1.579	12.91	562.1
110	.75000	.20000	958.00	.6590-01	.5350-01	.6500-01	.2263-02	.1663-02	.2263-02	1.366	12.07	562.3
110	.75000	.40000	959.00	.3050-01	.2520-01	.3050-01	.1063-02	.8763-03	.1063-02	.6460	5.494	558.6
110	.75000	.60000	960.00	.2470-01	.2030-01	.2470-01	.8596-03	.7086-03	.8596-03	.5230	4.447	558.1
110	.75000	.80000	961.00	.6700-02	.5600-02	.6700-02	.2338-03	.1935-03	.2338-03	.1460	1.205	542.2
110	.80000	.90000	962.00	.7200-02	.5900-02	.7200-02	.2500-03	.2070-03	.2500-03	.1560	1.222	541.6
110	.90000	.20000	963.00	.6340-01	.5200-01	.6340-01	.2208-02	.1819-02	.2208-02	1.338	11.83	560.3
110	.90000	.40000	964.00	.4270-01	.3530-01	.4270-01	.1488-02	.1228-02	.1488-02	.9110	8.079	553.8
110	.95000	.40000	965.00	.6340-01	.5230-01	.6340-01	.2208-02	.1821-02	.2208-02	1.346	9.937	556.2
110	.95000	.80000	966.00	.6100-02	.5000-02	.6100-02	.2109-03	.1747-03	.2109-03	.1320	1.014	541.2

REPRODUCIBILITY OF DATA  
ORIGINAL PAGE IS POOR

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-498) COLLATION DECK

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OH-498 (AEDC V41B-57A) ORBITER UPPER WING

(RV1U09)

UPPER WING

PARAMETRIC DATA

ALPHA = 50.00    beta = .0000    ELEVTR = .0000    SPOBRK = .0000  
 BDFLAP = .0000    MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
115	7.990	2.491	50.08	.0000	180.0	544.6	.5600-01	1303.	94.70	2.513	3809.	.4985-04
116	7.990	2.473	50.09	.0000	180.0	542.6	.5600-01	1305.	94.90	2.504	3814.	.4954-04
117	7.990	2.485	50.09	.0000	180.0	543.1	.5600-01	1303.	94.60	2.505	3809.	.4972-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R	ST FR R =
115	.7621-07	.3995-01	.0175	0.0175
116	.7639-07	.3989-01	.2591-01	.2591-01
117	.7619-07	.3989-01	.2586-01	.2586-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(19T0) BTU/ R FT2SEC	H(1T0) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTMDT DEG. R /SEC	TH DEG. R
116	.25000	.85000-01	938.00	.2300-02	.1900-02	.2300-02	.8937-04	.7412-04	.8937-04	.5700-01	.4220	540.6
116	.25000	.13500	939.00	.7300-03	.5000-03	.7000-03	.2665-04	.2210-04	.2665-04	.1700-01	.7600-01	540.8
116	.25000	.25000	940.00	.2500-02	.2000-02	.2500-02	.9546-04	.7314-04	.9546-04	.6000-01	.1680	542.5
116	.40000	.50000-01	941.00	.3750-01	.3090-01	.3750-01	.1458-02	.1203-02	.1458-02	.8990	7.953	558.9
116	.40000	.20000	942.00	.1680-01	.1550-01	.1680-01	.7299-03	.6035-03	.7299-03	.4550	3.366	552.2
116	.40000	.40000	943.00	.1400-02	.1200-02	.1400-02	.5500-04	.4552-04	.5500-04	.3500-01	.2840	548.4
116	.40000	.60000	944.00	.3000-02	.2500-02	.3000-02	.1179-03	.9760-04	.1179-03	.7400-01	.7480	548.4
116	.40000	.95000	945.00	.4200-02	.3500-02	.4200-02	.1644-03	.1333-03	.1644-03	.1040	.3260	543.7
116	.60000	.25000-01	946.00	.6900-01	.5980-01	.6900-01	.2644-02	.2170-02	.2644-02	1.579	31.44	578.5
116	.60000	.50000-01	947.00	.6150-01	.5060-01	.6150-01	.2391-02	.1970-02	.2391-02	1.463	17.92	564.0
116	.60000	.10000+00	948.00	.3000-01	.2400-01	.3000-01	.1163-02	.9651-03	.1163-02	.7260	6.433	554.5
116	.60000	.20000	949.00	.2650-01	.2350-01	.2650-01	.1107-02	.9147-03	.1107-02	.6890	5.268	553.2
116	.60000	.40000	950.00	.6200-02	.5100-02	.6200-02	.2420-03	.2002-03	.2420-03	.1520	1.295	549.4
116	.60000	.60000	951.00	.7700-02	.6300-02	.7700-02	.2979-03	.2455-03	.2979-03	.1870	1.663	548.1
116	.60000	.85000	952.00	.1060-01	.8800-02	.1060-01	.4125-03	.3415-03	.4125-03	.2590	2.057	547.8
116	.60000	.95000	953.00	.1170-01	.9700-02	.1170-01	.4544-03	.3764-03	.4544-03	.2860	3.357	545.3
116	.70000	.20000	954.00	.3700-01	.3060-01	.3700-01	.1438-02	.1188-02	.1438-02	.8920	7.322	555.3

DATE 25 AUG 76			AEDC VKF V41B-57A (OH-49B) COLLATION DECK			OH-49B (AEDC V41B-57A) ORBITER UPPER WING										PAGE 758		(RV1U09)	
RUN NUMBER	2Y, B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9T0) BTU/ R FT2SEC	H(1T0) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMOT DEG. R /SEC	TW DEG. R							
116	.70000	.40000	955.00	.2710-01	.2240-01	.2710-01	.1053-02	.8705-03	.1053-02	.6570	5.402	551.5							
116	.70000	.90000	956.00	.7200-02	.6000-02	.7200-02	.2806-03	.2325-03	.2806-03	.1770	1.464	543.5							
116	.75000	10000+00	957.00	.7440-01	.6130-01	.7440-01	.2892-02	.2385-02	.2892-02	1.775	14.51	562.2							
116	.75000	.20000	958.00	.7530-01	.6220-01	.7530-01	.2930-02	.2418-02	.2930-02	1.806	15.97	559.3							
116	.75000	.40000	959.00	.2390-01	.1980-01	.2390-01	.9311-03	.7722-03	.9311-03	.5820	4.973	550.5							
116	.75000	.60000	960.00	.3360-01	.2780-01	.3360-01	.1308-02	.1081-02	.1308-02	.8140	6.937	553.9							
116	.75000	.80000	962.00	.8000-02	.6700-02	.8000-02	.3129-03	.2593-03	.3129-03	.1980	1.633	543.3							
116	.80000	.90000	963.00	.9700-02	.8900-02	.9700-02	.3772-03	.3127-03	.3772-03	.2390	1.869	542.2							
116	.90000	.20000	964.00	.4640-01	.3530-01	.4640-01	.1805-02	.1493-02	.1805-02	1.117	9.886	557.0							
116	.90000	.40000	965.00	.3350-01	.2770-01	.3350-01	.1503-02	.1076-02	.1303-02	.8150	7.235	550.5							
116	.95000	.40000	967.00	.8070-01	.6650-01	.8070-01	.3137-02	.2589-02	.3137-02	1.933	14.25	559.5							
116	.95000	.60000	968.00	.6700-02	.5600-02	.6700-02	.2620-03	.2172-03	.2620-03	.1660	1.277	541.9							



AEDC VKF V41B-57A (OH-49B) COLLATION DECK

DATE 25 AUG 76

OH-49B (AEDC V41B-57A) CREITER UPPER WING

UPPER WING

PARAMETRIC DATA

ALPHA = 50.00 BETA = .0000 ELEVTR = .0000 SPDRBK = .0000  
BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	PN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	FO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
64	7.990	2.955	50.11	.0000	180.0	676.6	.7000-01	1344.	97.60	3.122	3868.	.6005-04
65	7.990	2.953	50.13	.0000	180.0	677.5	.7000-01	1343.	97.50	3.126	3867.	.6017-04
66	7.990	2.991	50.18	.0000	180.0	678.4	.7000-01	1336.	97.00	3.131	3856.	.6059-04

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTMOT DEG. R /SEC	TH DEG. R
65	.25000	.85000-01	938.00	.2400-02	.2000-02	.2400-02	.1028-03	.8558-04	.1028-03	.6900-01	.5100	541.8
65	.25000	.13500	939.00	.1000-02	.8000-03	.1000-02	.4430-04	.3687-04	.4430-04	.3000-01	.1320	542.1
65	.25000	.22500	940.00	.1000-02	.8000-03	.1000-02	.4390-04	.3652-04	.4390-04	.2900-01	.8100-01	543.8
65	.40000	.50000-01	941.00	.5930-01	.4900-01	.5930-01	.2599-02	.2139-02	.2589-02	1.653	14.53	570.4
65	.40000	.20000	942.00	.4120-01	.3410-01	.4120-01	.1799-02	.1491-02	.1799-02	1.168	8.603	559.7
65	.40000	.40000	943.00	.1800-02	.1500-02	.1800-02	.7712-04	.6403-04	.7712-04	.5100-01	.4150	553.9
65	.40000	.60000	944.00	.2700-02	.2200-02	.2700-02	.1181-03	.9302-04	.1181-03	.7700-01	.7800	553.9
65	.60000	.25000-01	945.00	.5930-02	.4100-02	.5000-02	.2132-02	.1757-02	.2132-02	1.344	26.76	545.9
65	.60000	.50000-01	946.00	.4690-01	.4020-01	.4690-01	.2036-02	.1659-02	.2036-02	1.283	15.67	569.4
65	.60000	.10000-00	947.00	.4760-01	.3940-01	.4760-01	.2036-02	.1722-02	.2036-02	1.343	11.86	562.8
65	.60000	.20000	948.00	.8300-02	.6900-02	.8300-02	.3618-03	.2997-03	.3618-03	.2340	1.786	560.6
65	.60000	.40000	949.00	.4400-02	.3700-02	.4400-02	.1939-03	.1608-03	.1939-03	.1270	1.078	556.3
65	.60000	.60000	950.00	.5300-02	.4400-02	.5300-02	.2235-03	.1905-03	.2235-03	1.500	1.332	554.3
65	.60000	.85000	951.00	.3700-02	.3000-02	.3700-02	.1595-03	.1327-03	.1595-03	.1050	.8370	548.6
65	.60000	.94000	952.00	.1300-01	.1000-01	.1300-01	.5635-03	.4732-03	.5635-03	.3760	4.397	548.7
65	.70000	.20000	953.00	.4450-01	.3660-01	.4450-01	.1945-02	.1609-02	.1945-02	1.252	10.22	564.8

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(RV1U09)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) OREITER UPPER WING

DATE 25 AUG 76

PUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
65	.70000	.40000	955.00	.2870-01	.2370-01	.2870-01	.1252-02	.1037-02	.1252-02	.8090	6.614	562.5
65	.70000	.90000	955.00	.5400-02	.4500-02	.5400-02	.2340-03	.1945-03	.2340-03	.1550	1.275	547.2
65	.75000	.10000+00	957.00	.6710-01	.5540-01	.6710-01	.2930-02	.2422-02	.2930-02	1.873	15.26	569.4
65	.75000	.20000	958.00	.7450-01	.6160-01	.7450-01	.3255-02	.2691-02	.3255-02	2.084	18.35	568.5
65	.75000	.40000	959.00	.8200-01	.6080-01	.8200-01	.1099-02	.9103-03	.1099-02	.7130	6.061	559.8
65	.75000	.60000	960.00	.3020-01	.2500-01	.3020-01	.1318-02	.1091-02	.1318-02	.8530	7.242	561.6
65	.75000	.80000	962.00	.5800-02	.4900-02	.5800-02	.2548-03	.2118-03	.2548-03	.1690	1.399	547.0
65	.80000	.90000	963.00	.1160-01	.9800-02	.1180-01	.5160-03	.4289-03	.5160-03	.3410	2.660	548.0
65	.90000	.20000	964.00	.8460-01	.7810-01	.8460-01	.4132-02	.3409-02	.4132-02	2.615	22.94	575.8
65	.90000	.40000	965.00	.7300-01	.6040-01	.7300-01	.3188-02	.2637-02	.3188-02	2.051	18.08	565.4
65	.95000	.40000	967.00	.8520-01	.7040-01	.8520-01	.3719-02	.3074-02	.3719-02	2.378	17.43	569.5
65	.95000	.80000	968.00	.6100-02	.5100-02	.6100-02	.2661-03	.2212-03	.2661-03	.1760	1.350	547.4

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1U09)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

UPPER WING

PARAMETRIC DATA

ALPHA = 50.00 BETA = .0000 ELEVTR = .0000 SPDBRK = .0000  
 BDFLAP = .0000 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	P0 PSIA	P PSIA	T0 DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
112	8.000	3.322	50.15	.0000	120.0	759.3	.7800-01	1340.	97.10	3.487	3863.	.6724-04
113	8.000	3.319	50.13	.0000	180.0	759.3	.7800-01	1340.	97.10	3.484	3863.	.6718-04
114	8.000	3.301	50.16	.0000	180.0	760.3	.7800-01	1347.	97.60	3.489	3872.	.6696-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R	ST FR R =
112	.7819-07	4.610-01	0 0175	
113	.7920-07	4.609-01		
114	.7856-07	4.616-01		

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H19T0 BTU/ R FT2SEC	H1T0 BTU/ R FT2SEC	H1TAM BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTADT DEG. R /SEC	TW DEG. R
113	.25000	.85000-01	938.00	.2400-02	.2000-02	.2400-02	.1083-03	.9017-04	.1083-03	.7200-01	.5370	540.2
113	.25000	.13500	939.00	.1000-02	.8000-03	.1000-02	.4390-04	.3654-04	.4390-04	.2900-01	.1310	540.4
113	.25000	.22500	940.00	.6000-03	.5000-03	.6000-03	.2980-04	.2479-04	.2980-04	.2000-01	.5500-01	542.2
113	.40000	.50000-01	941.00	.5390-01	.4450-01	.5380-01	.2480-02	.2050-02	.2480-02	1.584	13.95	567.7
113	.40000	.20000	942.00	.3600-01	.2980-01	.3600-01	.1657-02	.1373-02	.1657-02	1.076	7.933	557.4
113	.40000	.40000	943.00	.1900-02	.1630-02	.1900-02	.8930-04	.7362-04	.8930-04	.5800-01	.4800	550.3
113	.40000	.60000	944.00	.2600-02	.2200-02	.2600-02	.1209-03	.1004-03	.1209-03	.7900-01	.8010	550.0
113	.40000	.95000	945.00	.4700-02	.3900-02	.4700-02	.2144-03	.1783-03	.2144-03	2.107	41.69	544.6
113	.60000	.25000-01	946.00	.7430-01	.6100-01	.7430-01	.3425-02	.2812-02	.3425-02	2.107	41.69	591.2
113	.60000	.50000-01	947.00	.6890-01	.5520-01	.6890-01	.3079-02	.2543-02	.3079-02	1.957	23.89	571.0
113	.60000	.10000-00	948.00	.3930-01	.3260-01	.3930-01	.1811-02	.1500-02	.1811-02	1.172	10.37	559.1
113	.60000	.20000	949.00	.3750-01	.3110-01	.3750-01	.1727-02	.1432-02	.1727-02	1.121	8.556	557.3
113	.60000	.40000	950.00	.6800-02	.7300-02	.8800-02	.4045-03	.3359-03	.4045-03	.2650	2.265	550.8
113	.60000	.60000	951.00	.8900-02	.7400-02	.8900-02	.4083-03	.3391-03	.4083-03	.2680	2.383	549.7
113	.60000	.85000	952.00	.1900-01	.1580-01	.1900-01	.8768-03	.7278-03	.8768-03	.5740	4.549	551.9
113	.60000	.95000	953.00	.1700-01	.1410-01	.1700-01	.7847-03	.6520-03	.7847-03	.5170	6.051	547.6
113	.70000	.20000	954.00	.4070-01	.3370-01	.4070-01	.1877-02	.1555-02	.1877-02	1.213	9.928	560.2

REPRODUCIBILITY OF THE  
ORIGINAL PAPER

(RV1U09)

AEDC VKF V41B-57A (OH-498) COLLATION DECK

OH-498 (AEDC V41B-57A) ORBITER UPPER WING

DATE 25 AUG 76

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAJ)	H(9T) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAH) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
113	.70000	.40000	955.00	.2750-01	.2280-01	.2750-01	.1266-02	.1050-02	.1266-02	.8260	6.782	554.1
113	.70000	.90000	956.00	.1200-01	.1000-01	.1200-01	.5529-03	.4598-03	.5529-03	.3660	3.017	544.9
113	.75000	.10000	957.00	.6500-01	.7020-01	.8500-01	.3919-02	.3236-02	.3919-02	2.488	20.25	571.5
113	.75000	.20000	958.00	.7580-01	.6260-01	.7580-01	.3492-02	.2887-02	.3492-02	2.234	19.68	566.7
113	.75000	.40000	959.00	.2980-01	.2470-01	.2980-01	.1374-02	.1140-02	.1374-02	.8950	7.631	554.8
113	.75000	.60000	960.00	.5070-01	.4200-01	.5070-01	.2337-02	.1935-02	.2337-02	1.510	12.83	560.3
113	.75000	.80000	961.00	.1500-01	.1250-01	.1500-01	.6909-03	.5745-03	.6909-03	4.570	3.768	545.1
113	.80000	.90000	963.00	.1510-01	.1250-01	.1510-01	.6937-03	.5770-03	.6937-03	4.600	3.594	543.7
113	.90000	.20000	964.00	.9140-01	.7550-01	.9140-01	.4212-02	.3478-02	.4212-02	2.676	23.52	571.2
113	.90000	.40000	965.00	.5640-01	.4840-01	.5340-01	.2694-02	.2232-02	.2694-02	1.748	15.47	557.5
113	.95000	.40000	967.00	.8930-01	.7380-01	.8930-01	.4115-02	.3404-02	.4115-02	2.637	19.37	565.6
113	.95000	.80000	968.00	.7200-02	.6000-02	.7200-02	.3306-03	.2751-03	.3306-03	.2200	1.688	542.3

DATE 25 AUG 76

AEDC VKI V41B-57A (OH-498) COLLATION DECK

PAGE 763

UPPER WING

OH-498 (AEDC V41B-57A) ORBITER UPPER WING

(RV1U09)

## PARAMETRIC DATA

ALPHA = 50.00 BETA = .0000 ELEVTR = .0000 SPOBRK = .0000  
BDFLAP = .0000 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
25	8.000	3.739	50.14	.0000	180.0	862.0	.8800-01	1347.	97.60	3.956	3873.	.7587-04
26	8.000	3.735	50.14	.0030	180.0	860.7	.8800-01	1347.	97.60	3.950	3873.	.7579-04
27	8.000	3.729	50.16	.0000	180.0	861.5	.8800-01	1349.	97.60	3.954	3876.	.7573-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
25	.7861-07		.4915-01	0.0175
26	.7858-07		.4911-01	.2101-01
27	.7872-07		.4915-01	.2103-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1(TO) BTU/ R FT2SEC	H1(TO) BTU/ R FT2SEC	H1(TAW) BTU/ R FT2SEC	QOOT BTU/ R FT2SEC	DTMDT DEG. R /SEC	TH DEG. R
26	.25000	.85000-01	938.00	.3000-02	.3500-02	.3003-02	.1472-03	.1225-03	.1472-03	.9800-01	.7300	544.2
26	.25000	.13000	939.00	.1100-02	.9000-03	.1103-02	.5364-04	.4463-04	.5364-04	.3600-01	.1590	545.3
26	.25000	.22500	940.00	.2000-02	.1700-02	.2003-02	.9970-04	.8291-04	.9970-04	.6600-01	.1840	547.5
26	.40000	.50000-01	941.00	.4360-01	.3600-01	.4363-01	.2140-02	.1768-02	.2140-02	.1371	12.04	571.9
26	.40000	.20000	942.00	.2250-01	.1860-01	.2253-01	.1103-02	.9135-03	.1103-02	.7150	5.257	564.1
26	.40000	.40000	943.00	.2000-02	.1700-02	.2003-02	.9212-04	.8190-04	.9212-04	.6400-01	.5250	562.3
26	.40000	.60000	944.00	.1900-02	.1600-02	.1903-02	.3579-02	.2768-04	.3579-02	.6000-01	.5990	563.5
26	.40000	.95000	945.00	.4400-02	.3600-02	.4403-02	.2141-03	.1776-03	.2141-03	.1400	1.239	558.1
26	.60000	.25000-01	946.00	.7290-01	.5970-01	.7293-01	.3579-02	.2939-02	.3579-02	2.176	42.77	604.3
26	.60000	.50000-01	947.00	.7910-01	.6500-01	.7913-01	.3683-02	.3193-02	.3683-02	2.422	29.32	588.5
26	.60000	.10000+00	948.00	.4780-01	.3950-01	.4783-01	.1940-02	.1606-02	.2347-02	1.504	13.22	571.6
26	.60000	.20000	949.00	.3950-01	.3270-01	.3953-01	.1943-02	.1606-02	.1943-02	1.249	9.473	569.3
26	.60000	.40000	950.00	.6700-02	.5500-02	.6703-02	.3273-03	.2710-03	.3273-03	.2130	1.804	562.8
26	.60000	.60000	951.00	.1020-01	.8400-02	.1023-01	.5006-03	.4146-03	.5006-03	.3250	2.867	563.4
26	.60000	.85000	952.00	.4070-01	.3370-01	.4073-01	.2001-02	.1653-02	.2001-02	1.283	10.07	571.1
26	.60000	.95000	953.00	.1840-01	.1520-01	.1843-01	.9013-03	.7469-03	.9013-03	.5870	6.832	560.4
26	.70000	.20000	954.00	.4250-01	.3510-01	.4253-01	.2088-02	.1726-02	.2088-02	1.340	10.91	570.3

(RV1U09)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

DATE 25 AUG 76

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(ISTO) BTU/ R FT2SEC	H(OTO) BTU/ R FT2SEC	H(ITAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
26	.70000	.40000	955.00	.4130-01	.3410-01	.4130-01	.2026-02	.1676-02	.2026-02	1.307	10.66	567.3
26	.70000	.90000	956.00	.1440-01	.1200-01	.1440-01	.7083-03	.5877-03	.7083-03	.4650	3.816	555.5
26	.75000	.10000+00	957.00	.1039	.8560-01	.1039	.5104-02	.4206-02	.5104-02	3.222	26.10	581.0
26	.75000	.20000	958.00	.7460-01	.6170-01	.7460-01	.3666-02	.3029-02	.3666-02	2.348	20.64	571.7
26	.75000	.40000	959.00	.3230-01	.2680-01	.3230-01	.1587-02	.1314-02	.1587-02	1.031	8.751	562.6
26	.75000	.60000	960.00	.3900-01	.3220-01	.3900-01	.1914-02	.1574-02	.1914-02	1.235	10.47	566.7
26	.75000	.80000	962.00	.1490-01	.1240-01	.1490-01	.7309-03	.6069-03	.7309-03	.4820	3.954	553.4
26	.80000	.90000	963.00	.1590-01	.1320-01	.1590-01	.7787-03	.6471-03	.7787-03	.5160	4.018	550.1
26	.90000	.20000	964.00	.1273	.1048	.1273	.6251-02	.5149-02	.6251-02	3.932	34.35	583.3
26	.90000	.40000	965.00	.7780-01	.6430-01	.7780-01	.3819-02	.3160-02	.3819-02	2.467	21.74	566.1
26	.95000	.40000	967.00	.9650-01	.7970-01	.9650-01	.4740-02	.3916-02	.4740-02	3.034	22.22	572.1
26	.95000	.80000	968.00	.7000-02	.5800-02	.7000-02	.3423-03	.2846-03	.3423-03	.2280	1.746	547.0

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 25 AUG 76

AEDC V/F V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U40)

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = -7.000 SPDBRK = 40.00  
 BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI DEG.	MODEL DEG.	P3 PSIA	P PSIA	T3 DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
390	7.900	.5489	19.59	.0000	180.0	113.3	.1300-01	.1300-01	1278.	94.80	.5490	3768.	.1111-04
391	7.900	.5493	19.97	.0000	180.0	113.1	.1300-01	.1300-01	1278.	94.80	.5490	3769.	.1112-04
392	7.900	.5402	19.98	.0000	180.0	111.5	.1200-01	.1200-01	1281.	95.00	.5420	3773.	.1095-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =	HREF BTU/ R
390	.7630-07		0.0175	
391	.7631-07		.5458-01	
392	.7649-07		.5456-01	

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9T0) BTU/ R FT2SEC	H(10T) BTU/ R FT2SEC	H(11T) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
391	.25000	.65000-01	938.00	.8000-02	.6600-02	.8000-02	.1453-03	.1204-03	.1453-03	.9000-01	.6690	533.3
391	.25000	.13500	939.00	.3300-02	.2700-02	.3300-02	.5992-04	.4964-04	.5992-04	.3700-01	.1660	532.5
391	.25000	.22500	940.00	.4500-02	.3800-02	.4500-02	.8238-04	.6826-04	.8238-04	.5100-01	.1430	532.4
391	.40000	.50000-01	941.00	.2360-01	.1930-01	.2360-01	.4286-03	.3547-03	.4286-03	.2630	2.353	536.3
391	.40000	.20000	942.00	.8500-02	.7000-02	.8500-02	.1539-03	.1274-03	.1539-03	.9500-01	.7060	535.3
391	.40000	.40000	943.00	.1930-02	.1600-02	.1930-02	.3512-04	.2909-04	.3512-04	.2200-01	.1790	534.2
391	.40000	.60000	944.00	.2200-02	.1900-02	.2200-02	.4077-04	.3378-04	.4077-04	.2500-01	.2560	533.0
391	.60000	.25000-01	945.00	.1500-02	.1200-02	.1500-02	.2717-04	.2253-04	.2717-04	.1700-01	.1510	529.8
391	.60000	.50000-01	946.00	.1116	.9170-01	.1116	.2025-02	.1663-02	.2025-02	1.190	23.87	562.7
391	.60000	.10000-00	947.00	.1139	.9390-01	.1139	.2056-02	.1703-02	.2056-02	1.237	15.26	551.1
391	.60000	.20000	948.00	.5840-01	.4630-01	.5840-01	.1060-02	.8758-03	.1060-02	.6460	5.762	540.9
391	.60000	.40000	949.00	.1900-01	.1570-01	.1900-01	.3453-03	.2857-03	.3453-03	.2120	1.632	537.2
391	.60000	.60000	950.00	.4400-02	.3600-02	.4400-02	.7947-04	.6581-04	.7947-04	.4900-01	.4210	534.6
391	.60000	.80000	951.00	.2000-02	.1700-02	.2000-02	.3661-04	.3033-04	.3661-04	.2300-01	.2020	533.0
391	.60000	.10000-01	952.00	.1000-02	.8000-03	.1000-02	.1843-04	.1526-04	.1843-04	.1100-01	.9200-01	530.0
391	.60000	.20000-01	953.00	.2000-02	.1600-02	.2000-02	.3598-04	.2988-04	.3598-04	.2200-01	.2640	529.3
391	.70000	.20000	954.00	.2440-01	.2020-01	.2440-01	.4426-03	.3662-03	.4426-03	.2710	2.245	537.5

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AEDC VKF V41B-57A (OH-498) COLLATION DECK

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(RV1U40)

OH-498 (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAI)	H(ISO) BTU/ R FT2SEC	H(ISO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
391	.70000	.40000	955.00	.1070-01	.0900-02	.1070-01	.1340-03	.1608-03	.1940-03	.1190	.9880	535.8
391	.70000	.90000	955.00	.2600-02	.2100-02	.2600-02	.4661-04	.3665-04	.4661-04	.2900-01	.2400	529.5
391	.75000	.10000+00	957.00	.7150-01	.5910-01	.7150-01	.1296-02	.1072-02	.1296-02	.7910	6.538	540.1
391	.75000	.20000	959.00	.2940-01	.2430-01	.2940-01	.5330-03	.4409-03	.5330-03	.3250	2.914	538.3
391	.75000	.40000	959.00	.1320-01	.1030-01	.1320-01	.2393-03	.1991-03	.2393-03	.1470	1.265	535.9
391	.75000	.60000	960.00	.7700-02	.6400-02	.7700-02	.1406-03	.1164-03	.1406-03	.8700-01	.7460	534.1
391	.75000	.90000	962.00	.1700-02	.1400-02	.1700-02	.3017-04	.2502-04	.3017-04	.1900-01	.1560	529.9
391	.80000	.90000	963.00	.6000-02	.4900-02	.6000-02	.1082-03	.8976-04	.1082-03	.6700-01	.5290	529.5
391	.90000	.20000	964.00	.3040-01	.2510-01	.3040-01	.5510-03	.4561-03	.5510-03	.3390	3.027	536.2
391	.90000	.40000	965.00	.1010-01	.8400-02	.1010-01	.1832-03	.1518-03	.1832-03	.1130	1.014	532.9
391	.95000	.40000	967.00	.1230-01	.1070-01	.1230-01	.2348-03	.1946-03	.2348-03	.1450	1.084	532.1
391	.95000	.60000	968.00	.2700-02	.2200-02	.2700-02	.4893-04	.4058-04	.4893-04	.3000-01	.2350	529.1

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) OFBITER UPPER WING

(RV1040)

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = -7.000 SPDBRK = 40.00  
 BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TC DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
399	7.940	1.025	19.93	.0000	180.0	211.2	.2300-01	1267.	93.10	1.003	3754.	.2047-04
400	7.940	1.013	19.93	.0000	180.0	205.3	.2300-01	1270.	93.30	.9940	3758.	.2025-04
401	7.940	1.013	19.93	.0000	180.0	205.9	.2300-01	1272.	93.50	.9970	3761.	.2027-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR P =
399	.7497-07	.2448-01	0.0175
400	.7512-07	.2438-01	.4018-01
401	.7525-07	.2442-01	.4040-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DT/OT DEG. R /SEC	TW DEG. R
400	25000	.85000-01	938.00	.7000-02	.5900-02	.7000-02	.1715-03	.1418-03	.1715-03	.1040	.7770	535.2
400	25000	.13500	939.00	.3500-02	.2900-02	.3500-02	.8611-04	.7122-04	.8611-04	.5200-01	.2340	535.4
400	25000	.22500	940.00	.6900-02	.5700-02	.6900-02	.1676-03	.1365-03	.1676-03	.1020	.2650	535.4
400	40000	.50000-01	941.00	.2280-01	.1880-01	.2280-01	.5547-03	.4391-03	.5547-03	.3340	2.982	540.6
400	40000	.20000	942.00	.9600-02	.7900-02	.9600-02	.2329-03	.1824-03	.2329-03	.1410	1.047	539.0
400	40000	.40000	943.00	.1700-02	.1400-02	.1700-02	.4226-04	.3493-04	.4226-04	.2600-01	.2120	537.5
400	40000	.60000	944.00	.1100-02	.9000-03	.1100-02	.2503-04	.2157-04	.2503-04	.1600-01	.1610	536.1
400	40000	.80000	945.00	.1800-02	.1500-02	.1800-02	.4330-04	.3534-04	.4330-04	.2600-01	.2360	533.5
400	50000	.25000-01	946.00	.1154	.9430-01	.1154	.2314-02	.2323-02	.2314-02	1.594	31.76	576.3
400	50000	.50000-01	947.00	.1139	.9350-01	.1139	.2777-02	.2322-02	.2777-02	1.627	20.00	556.9
400	50000	.10000-00	948.00	.5440-01	.4430-01	.5440-01	.1327-02	.1055-02	.1327-02	.7930	7.063	545.3
400	50000	.20000	949.00	.1730-01	.1430-01	.1730-01	.4229-03	.3452-03	.4229-03	.2540	1.958	541.0
400	50000	.40000	950.00	.4100-02	.3400-02	.4100-02	.9328-04	.8204-04	.9328-04	.6000-01	.5160	538.4
400	50000	.60000	951.00	.1400-02	.1100-02	.1400-02	.3368-04	.2801-04	.3368-04	.2100-01	.1840	536.8
400	50000	.80000	952.00	.1100-02	.9000-03	.1100-02	.2644-04	.2187-04	.2644-04	.1600-01	.1290	533.9
400	50000	.95000	953.00	.1500-02	.1200-02	.1500-02	.3532-04	.3006-04	.3532-04	.2200-01	.2610	533.3
400	70000	.20000	954.00	.2390-01	.1970-01	.2390-01	.5625-03	.4939-03	.5625-03	.3500	2.889	542.2

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AEDC VKF V41B-57A (OH-499) COLLATION DECK

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(RV1U40)

OH-49B (AEDC V41B-57A) CRBITER UPPER WING

PUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
400	.70000	.40000	955.00	.9600-02	.7900-02	.9500-02	.2346-03	.1938-03	.2346-03	.1420	1.170	539.5
400	.70000	.90000	956.00	.1800-02	.1500-02	.1800-02	.4303-04	.3551-04	.4303-04	.2600-01	.2170	533.6
400	.75000	.10000+00	957.00	.8240-01	.5790-01	.8240-01	.2008-02	.1655-02	.2008-02	1.200	9.897	545.4
400	.75000	.20000	958.00	.3000-01	.2480-01	.3000-01	.7326-03	.6046-03	.7326-03	.4390	3.914	543.4
400	.75000	.40000	959.00	.1340-01	.1110-01	.1340-01	.3270-03	.2720-03	.3270-03	.1970	1.689	540.7
400	.75000	.60000	960.00	.7800-02	.6500-02	.7800-02	.1910-03	.1578-03	.1910-03	.1150	.9920	538.2
400	.75000	.90000	962.00	.4000-02	.3300-02	.4000-02	.9740-04	.8356-04	.9740-04	.5900-01	.4910	534.2
400	.80000	.50000	963.00	.4700-02	.3900-02	.4700-02	.1137-03	.9404-04	.1137-03	.6900-01	.5430	534.2
400	.90000	.20000	964.00	.3350-01	.2600-01	.3350-01	.8275-03	.6831-03	.8275-03	.4970	4.431	542.3
400	.90000	.40000	965.00	.9300-02	.7700-02	.9300-02	.2262-03	.1870-03	.2262-03	.1370	1.223	537.8
400	.95000	.40000	967.00	.1470-01	.1220-01	.1470-01	.3592-03	.2970-03	.3592-03	.2160	1.621	537.2
400	.95000	.80000	968.00	.1600-02	.1300-02	.1600-02	.3902-04	.3229-04	.3902-04	.2400-01	.1840	533.5

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) (CRBITER UPPER WING

(RV1U40)

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = -7.000 SPOBRK = 40.00  
 BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	FO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
408	7.980	1.976	19.97	.0000	130.0	429.0	.4500-01	1300.	94.70	1.991	3804.	.3959-04
409	7.980	1.971	19.97	.0000	180.0	429.4	.4500-01	1303.	94.90	1.993	3809.	.3953-04
410	7.980	1.930	19.97	.0000	180.0	430.4	.4500-01	1297.	94.40	1.997	3799.	.3982-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
408	.7621-07	.3465-01	0.0175
409	.7640-07	.3468-01	.2897-01
410	.7601-07	.3469-01	.2888-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9T0) BTU/ R FT2SEC	H(1T0) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
409	.25000	.85000-01	938.00	.4300-02	.3500-02	.4300-02	.1495-03	.1240-03	.1495-03	.9500-01	.7040	540.3
409	.25000	.13500	939.00	.3900-02	.3200-02	.3900-02	.1350-03	.1120-03	.1350-03	.8500-01	.3820	540.2
409	.25000	.22500	940.00	.5200-02	.4300-02	.5200-02	.1818-03	.1507-03	.1818-03	.1150	.3210	540.8
409	.40000	.50000-01	941.00	.2310-01	.1910-01	.2310-01	.6004-03	.5622-03	.6004-03	.5000	4.447	548.2
409	.40000	.20000	942.00	.1310-01	.1080-01	.1310-01	.4529-03	.3750-03	.4529-03	.2840	2.107	546.1
409	.40000	.40000	943.00	.2100-02	.1700-02	.2100-02	.7273-04	.6024-04	.7273-04	.4600-01	.3770	544.3
409	.40000	.60000	944.00	.8000-03	.6000-03	.8000-03	.2711-04	.2246-04	.2711-04	.1700-01	.1730	542.6
409	.40000	.90000	945.00	.3400-02	.2800-02	.3400-02	.1164-03	.9555-04	.1164-03	.7400-01	.6610	538.0
409	.60000	.25000-01	946.00	.1172	.9530-01	.1172	.4678-02	.3306-02	.4678-02	.2306	45.30	605.7
409	.60000	.50000-01	947.00	.1175	.9630-01	.1175	.4678-02	.3318-02	.4678-02	2.439	29.73	574.9
409	.60000	.10000-00	948.00	.5200-01	.4300-01	.5200-01	.1804-02	.1490-02	.1804-02	1.118	9.919	553.1
409	.60000	.20000	949.00	.1830-01	.1530-01	.1830-01	.6527-03	.5401-03	.6527-03	.4080	3.129	547.9
409	.60000	.40000	950.00	.3800-02	.3200-02	.3800-02	.1329-03	.1100-03	.1329-03	.8300-01	.7140	545.1
409	.60000	.60000	951.00	.1200-02	.1000-02	.1200-02	.4099-04	.3396-04	.4099-04	.2600-01	.2300	542.7
409	.60000	.85000	952.00	.9200-03	.7000-03	.9200-03	.3963-04	.2541-04	.3963-04	.1900-01	.1550	538.4
409	.60000	.95000	953.00	.1400-02	.1200-02	.1400-02	.4997-04	.4147-04	.4997-04	.3200-01	.3740	537.4
409	.70000	.20000	954.00	.2370-01	.1960-01	.2370-01	.6232-03	.5809-03	.6232-03	.5130	4.225	549.4

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) (RBITER UPPER WING) (RV1U40)

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
409	.70000	.40000	955.00	.9700-02	.8100-02	.5700-02	.3330-03	.2799-03	.3380-03	.2120	1.747	546.0
409	.70000	.90000	956.00	.1000-02	.8000-03	.1000-02	.3370-04	.2796-04	.3370-04	.2100-01	.1770	537.3
409	.75000	.10000+00	957.00	.7200-01	.5950-01	.7200-01	.2497-02	.2052-02	.2497-02	1.544	12.68	554.5
409	.75000	.20000	958.00	.3140-01	.2590-01	.3140-01	.1088-02	.8994-03	.1088-02	.6780	6.020	550.1
409	.75000	.40000	959.00	.1390-01	.1150-01	.1390-01	.4829-03	.3999-03	.4829-03	.3030	2.591	546.2
409	.75000	.60000	960.00	.8800-02	.7300-02	.6800-02	.3053-03	.2229-03	.3053-03	.1820	1.645	544.2
409	.75000	.90000	962.00	.2700-02	.2300-02	.2700-02	.9466-04	.7854-04	.9466-04	.6000-01	.4980	537.7
409	.80000	.90000	963.00	.4000-02	.3300-02	.4000-02	.1379-03	.1143-03	.1378-03	.8700-01	.7680	538.1
409	.90000	.20000	964.00	.4640-01	.3830-01	.4640-01	.1608-02	.1329-02	.1608-02	1.030	8.885	550.8
409	.90000	.40000	965.00	.1540-01	.1280-01	.1540-01	.5355-03	.4435-03	.5355-03	.3370	3.003	543.7
409	.95000	.40000	967.00	.1400-01	.1160-01	.1400-01	.4873-03	.4039-03	.4873-03	.3080	2.289	541.4
409	.95000	.80000	968.00	.1600-02	.1300-02	.1600-02	.5626-04	.4669-04	.5626-04	.3600-01	.2760	537.3

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1U40)

UPPER WING

OH-49B (AEDC V41B-57A) (RBITER UPPER WING

PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = -7.000 SPOBRK = 40.00  
BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	FO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
417	8.000	3.727	19.55	.0000	180.0	859.8	.8800-01	1348.	97.70	3.946	3874.	.7565-04
418	8.000	3.759	19.55	.0000	180.0	850.9	.8900-01	1342.	97.20	3.951	3865.	.7611-04
419	8.000	3.759	19.55	.0000	180.0	861.7	.8800-01	1342.	97.30	3.954	3866.	.7614-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
417	.7864-07	.4909-01	0.0175
418	.7827-07	.4908-01	.2104-01
419	.7830-07	.4911-01	.2096-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9T0) BTU/ R FT2SEC	H(1T0) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
418	.25000	.85000-01	938.00	.5900-02	.4900-02	.5900-02	.2874-03	.2392-03	.2874-03	.1910	1.423	541.5
418	.25000	.13500	939.00	.4700-02	.3900-02	.4700-02	.2287-03	.1534-03	.2287-03	.1520	.6800	540.8
418	.25000	.22500	940.00	.9500-02	.7900-02	.9500-02	.4644-03	.3855-03	.4644-03	.3030	.8620	541.5
418	.43000	.50000-01	941.00	.2920-01	.2430-01	.2920-01	.1435-02	.1191-02	.1435-02	.9380	8.321	553.5
418	.43000	.20000	942.00	.1670-01	.1390-01	.1670-01	.8183-03	.6799-03	.8183-03	.5390	3.995	548.5
418	.43000	.40000	943.00	.2500-02	.2100-02	.2500-02	.1227-03	.1020-03	.1227-03	.8100-01	.6890	545.7
418	.43000	.60000	944.00	.1500-02	.1300-02	.1500-02	.7425-04	.6174-04	.7425-04	.4900-01	.4990	544.8
418	.43000	.95000	945.00	.3700-02	.3000-02	.3700-02	.1792-03	.1432-03	.1792-03	.1190	1.066	540.7
418	.63000	.25000-01	946.00	.1182	.9540-01	.1182	.5920-02	.4681-02	.5920-02	3.254	62.66	546.4
418	.63000	.50000-01	947.00	.1227	.1005	.1227	.6023-02	.4934-02	.6023-02	3.660	44.05	599.8
418	.63000	.10000-00	948.00	.5790-01	.4800-01	.5790-01	.2843-02	.2356-02	.2843-02	1.845	16.32	558.4
418	.63000	.20000	949.00	.1870-01	.1550-01	.1870-01	.9174-03	.7619-03	.9174-03	.6030	4.617	550.3
418	.63000	.40000	950.00	.4500-02	.3700-02	.4500-02	.2192-03	.1822-03	.2192-03	.1450	1.239	546.7
418	.63000	.60000	951.00	.1000-02	.9000-03	.1000-02	.5089-04	.4232-04	.5089-04	.3400-01	.3000	544.8
418	.63000	.85000	952.00	.2300-02	.2000-02	.2300-02	.1150-03	.9571-04	.1150-03	.7700-01	.6090	542.2
418	.63000	.95000	953.00	.2600-02	.2300-02	.2600-02	.1351-03	.1125-03	.1351-03	.9000-01	1.059	540.3
418	.73000	.20000	954.00	.2330-01	.2430-01	.2330-01	.1439-02	.1193-02	.1439-02	.9390	7.707	554.7

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) CRBITER UPPER WING

(RV1040)

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAM)	H(190) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(TAM) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWOT DEG. R /SEC	TW DEG. R
418	.70000	.40000	955.00	.1200-01	.1000-01	.1200-01	.5887-03	.4881-03	.5887-03	.3880	3.194	548.5
418	.70000	.90000	955.00	.9000-03	.7000-03	.9000-03	.4206-04	.3502-04	.4206-04	.2800-01	.2320	539.6
418	.75000	.10000+00	957.00	.7950-01	.6590-01	.7950-01	.3904-02	.3234-02	.3904-02	2.527	20.68	560.2
418	.75000	.20000	958.00	.3370-01	.2800-01	.3370-01	.1655-02	.1373-02	.1655-02	1.081	9.690	554.3
418	.75000	.40000	959.00	.1680-01	.1390-01	.1680-01	.8239-03	.6844-03	.8239-03	.5420	4.635	549.2
418	.75000	.60000	960.00	.1280-01	.1070-01	.1280-01	.6292-03	.5238-03	.6292-03	.4150	3.548	548.0
418	.75000	.80000	962.00	.1500-02	.1200-02	.1500-02	.7305-04	.6082-04	.7305-04	.4500-01	.4030	540.2
418	.80000	.90000	963.00	.3900-02	.3200-02	.3900-02	.1899-03	.1591-03	.1899-03	.1270	.9920	540.1
418	.90000	.20000	964.00	.4890-01	.4050-01	.4890-01	.2401-02	.1930-02	.2401-02	1.559	13.80	558.1
418	.90000	.40000	965.00	.1710-01	.1420-01	.1710-01	.8398-03	.6991-03	.8398-03	.5550	4.942	546.3
418	.95000	.40000	967.00	.3210-01	.2670-01	.3210-01	.1576-02	.1309-02	.1576-02	1.039	7.701	548.0
418	.95000	.60000	968.00	.3600-02	.3100-02	.3600-02	.1850-03	.1541-03	.1850-03	.1240	.9510	539.6

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1U41)

OH-49B (AEDC V41B-57A) CRBITER UPPER WING

## UPPER WING

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = -7.000 SPDBRK = 40.00  
 BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	FO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
393	7.900	30.02	.0000	180.0	110.6	.1200-01	1281.	95.00	.5370	3774.	.1085-04
394	7.900	30.03	.0000	180.0	111.1	.1200-01	1282.	95.10	.5390	3775.	.1089-04
395	7.900	30.04	.0000	180.0	111.9	.1200-01	1283.	95.20	.5430	3776.	.1096-04

RUN NUMBER	MU LB-SEC /FT <sup>2</sup>	ST FR R =
393	.7652-07	0.3175
394	.7659-07	.5517-01
395	.7663-07	.5499-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(ISTO) BTU/ R FT <sup>2</sup> SEC	H(UTO) BTU/ R FT <sup>2</sup> SEC	H(UTAW) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTMOT DEG. R /SEC	TW DEG. R
394	.25000	.85000-01	938.00	.4200-02	.3500-02	.4200-02	.7628-04	.6321-04	.7628-04	.4700-01	.3530	533.8
394	.25000	.13500	939.00	.2400-02	.2000-02	.2400-02	.4249-04	.3521-04	.4249-04	.2600-01	.1180	534.0
394	.25000	.22500	940.00	.3700-02	.3100-02	.3700-02	.6709-04	.5559-04	.6708-04	.4200-01	.1160	534.0
394	.40000	.50000-01	941.00	.1420-01	.1180-01	.1420-01	.2561-03	.2120-03	.2561-03	.1580	1.411	538.0
394	.40000	.20000	942.00	.6100-02	.5000-02	.6100-02	.1636-03	.9059-04	.1096-03	.6700-01	.5030	538.4
394	.40000	.40000	943.00	.9000-03	.8000-03	.9000-03	.1639-04	.1357-04	.1639-04	.1000-01	.8400-01	537.7
394	.40000	.60000	944.00	.2000-03	.2000-03	.2000-03	.4162-05	.3447-05	.4162-05	.3000-02	.2500-01	535.7
394	.40000	.85000	945.00	.6000-03	.5000-03	.6000-03	.1311-04	.8333-05	.1011-04	.6000-02	.5700-01	531.1
394	.60000	.20000-01	946.00	.1257	.1031	.1257	.2261-02	.1556-02	.2261-02	1.328	26.58	567.0
394	.60000	.50000-01	947.00	.1256	.1026	.1256	.2241-02	.1847-02	.2241-02	1.345	16.56	554.3
394	.60000	.10000-00	948.00	.6000-01	.5000-01	.6000-01	.1633-02	.9033-03	.1053-02	.6670	5.939	544.5
394	.60000	.20000	949.00	.1690-01	.1400-01	.1690-01	.3043-03	.2516-03	.3043-03	.1870	1.435	541.2
394	.60000	.40000	950.00	.3500-02	.2500-02	.3500-02	.6350-04	.5255-04	.6350-04	.3900-01	.3360	538.7
394	.60000	.60000	951.00	.9000-03	.8000-03	.9000-03	.1651-04	.1357-04	.1651-04	.1000-01	.9100-01	536.6
394	.60000	.85000	952.00	.6000-03	.5000-03	.6000-03	.1761-04	.8793-05	.1061-04	.7000-02	.5300-01	532.4
394	.60000	.95000	953.00	.2300-02	.1900-02	.2300-02	.4225-04	.3504-04	.4225-04	.2600-01	.3110	531.4
394	.70000	.25000	954.00	.1950-01	.1610-01	.1950-01	.3507-03	.2900-03	.3507-03	.2150	1.776	541.4

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) CRBITER UPPER WING

(RV1U41)

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(10) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TH DEG. R
394	.70000	.40000	955.00	.8900-02	.7400-02	.8300-02	.1603-03	.1326-03	.1603-03	.9900-01	.8150	539.5
394	.70000	.90000	956.00	.1500-02	.1300-02	.1500-02	.2744-04	.2275-04	.2744-04	.1700-01	.1420	531.5
394	.75000	10000+00	957.00	.4980-01	.4120-01	.4360-01	.8964-03	.7411-03	.8964-03	.5490	4.532	542.2
394	.75000	.20000	958.00	.2920-01	.2420-01	.2320-01	.5257-03	.4347-03	.5257-03	.3220	2.870	542.2
394	.75000	.40000	959.00	.1150-01	.9500-02	.1150-01	.2068-03	.1711-03	.2068-03	.1270	1.091	539.8
394	.75000	.60000	960.00	.6400-02	.5300-02	.6400-02	.1151-03	.9528-04	.1151-03	.7100-01	.6100	537.5
394	.75000	.90000	962.00	.4000-02	.3400-02	.4000-02	.7280-04	.6036-04	.7280-04	.4500-01	.3760	531.8
394	.80000	.90000	963.00	.3000-02	.2500-02	.3000-02	.5376-04	.4457-04	.5376-04	.3300-01	.2630	531.9
394	.90000	.20000	964.00	.2700-01	.2230-01	.2700-01	.4858-03	.4019-03	.4858-03	.2990	2.657	539.5
394	.90000	.40000	965.00	.1140-01	.9400-02	.1140-01	.2045-03	.1633-03	.2045-03	.1250	1.130	536.5
394	.95000	.40000	967.00	.1400-01	.1160-01	.1400-01	.2510-03	.2079-03	.2510-03	.1550	1.158	535.8
394	.95000	.60000	968.00	.1100-02	.9000-03	.1100-02	.2009-04	.1666-04	.2009-04	.1300-01	.9700-01	531.5



DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1041)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

UPPER WING

PARAMETRIC DATA

ALPHA = 30.00 SETA = .0000 ELEVTR = -7.000 SPDBRK = 40.00  
 BDFLAP = 15.00 MACH = 8.0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	QW/L X10 6 /FT	ALPHA DFG.	YAW DEG.	PHI MODEL DEG.	PSIA	P	PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
402	7.940	1.021	30.03	.0000	180.0	211.2	.2300-01	1271.	93.40	1.003	3759.	.2042-04	
403	7.940	1.023	30.04	.0000	180.0	210.9	.2300-01	1267.	93.10	1.001	3755.	.2044-04	
404	7.940	1.031	30.06	.0000	180.0	211.6	.2300-01	1265.	93.00	1.006	3751.	.2057-04	

RUN NUMBER	MACH	QW/L X10 6 /FT	ALPHA DFG.	YAW DEG.	PHI MODEL DEG.	PSIA	P	PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
402	7.940	1.021	30.03	.0000	180.0	211.2	.2300-01	1271.	93.40	1.003	3759.	.2042-04	
403	7.940	1.023	30.04	.0000	180.0	210.9	.2300-01	1267.	93.10	1.001	3755.	.2044-04	
404	7.940	1.031	30.06	.0000	180.0	211.6	.2300-01	1265.	93.00	1.006	3751.	.2057-04	

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF P=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11) BTU/ R FT2SEC	OCOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
403	.25000	.85000-01	938.00	.2700-02	.2300-02	.2700-02	.6717-04	.5550-04	.6717-04	.4000-01	.3010	538.1
403	.25000	.13500	939.00	.1600-02	.1300-02	.1600-02	.3909-04	.3231-04	.3909-04	.2400-01	.1050	537.4
403	.25000	.22500	940.00	.3400-02	.2800-02	.3400-02	.8337-04	.6590-04	.8337-04	.5000-01	.1410	537.3
403	.40000	.50000-01	941.00	.1510-01	.1240-01	.1510-01	.3689-03	.3044-03	.3689-03	.2210	1.968	542.6
403	.40000	.20000	942.00	.7200-02	.6000-02	.7200-02	.1770-03	.1460-03	.1770-03	.1060	.7860	543.2
403	.40000	.40000	943.00	.1100-02	.9000-03	.1100-02	.2609-04	.2318-04	.2609-04	.1700-01	.1390	542.3
403	.40000	.60000	944.00	.2000-03	.2000-03	.2000-03	.5220-05	.4309-05	.5220-05	.3000-02	.3200-01	540.8
403	.40000	.95000	945.00	.1600-02	.1300-02	.1600-02	.3807-04	.3148-04	.3807-04	.2300-01	.2060	534.9
403	.60000	.25000-01	946.00	.1235	.1007	.1235	.3023-02	.2464-02	.3023-02	1.691	33.62	581.2
403	.60000	.50000-01	947.00	.1261	.1034	.1261	.3086-02	.2529-02	.3086-02	1.776	21.76	565.1
403	.60000	.10000+00	948.00	.5840-01	.4810-01	.5840-01	.1429-02	.1177-02	.1429-02	.8430	7.488	550.9
403	.60000	.20000	949.00	.1330-01	.1330-01	.1330-01	.4000-03	.3297-03	.4000-03	.2380	1.824	546.4
403	.60000	.40000	950.00	.3500-02	.2600-02	.3500-02	.7725-04	.6372-04	.7725-04	.4600-01	.3950	543.7
403	.60000	.60000	951.00	.6000-03	.5000-03	.6000-03	.1488-04	.1229-04	.1488-04	.9000-02	.8000-01	541.5
403	.60000	.85000	952.00	.9500-03	.8000-03	.9500-03	.2314-04	.1913-04	.2314-04	.1400-01	.1120	536.6
403	.60000	.95000	953.00	.2500-02	.2000-02	.2500-02	.6024-04	.4981-04	.6024-04	.3500-01	.4290	535.4
403	.70000	.20000	954.00	.2020-01	.1670-01	.2020-01	.4948-03	.4078-03	.4948-03	.2940	2.423	546.5

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

DATE 25 AUG 76

(RV1U41)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H HREF (1AW)	H(970) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
403	.70000	.40000	955.00	.9000-02	.7400-02	.9000-02	.2195-03	.1810-03	.2195-03	.1310	1.079	545.0
403	.75000	.10000+00	957.00	.6320-01	.5200-01	.6320-01	.1546-02	.1273-02	.1546-02	.9140	7.522	548.6
403	.75000	.20000	958.00	.3240-01	.2670-01	.3240-01	.7927-03	.6530-03	.7927-03	.4700	4.178	548.1
403	.75000	.40000	959.00	.1310-01	.1080-01	.1310-01	.3204-03	.2642-03	.3204-03	.1910	1.634	545.4
403	.75000	.60000	960.00	.6300-02	.5200-02	.6300-02	.1535-03	.1266-03	.1535-03	.9200-01	.7870	542.8
403	.75000	.90000	962.00	.1000-03	.1000-03	.1000-03	.1667-05	.1378-05	.1667-05	.1000-02	.8000-02	535.4
403	.80000	.90000	963.00	.4730-02	.3900-02	.4700-02	.1140-03	.9424-04	.1140-03	.6900-01	.5410	536.1
403	.90000	.20000	964.00	.3780-01	.3120-01	.3780-01	.9258-03	.7630-03	.9258-03	.5500	4.895	546.6
403	.90000	.40000	965.00	.1820-01	.1500-01	.1820-01	.4462-03	.3632-03	.4462-03	.2670	2.381	542.5
403	.95000	.40000	967.00	.2160-01	.1720-01	.2160-01	.5285-03	.4354-03	.5286-03	.3170	2.357	541.2
403	.95000	.60000	968.00	.1500-02	.1600-02	.1500-02	.4627-04	.3926-04	.4627-04	.2800-01	.2160	535.8

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1041)

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = -7.000 SPDBRK = 40.00  
 BOFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO FSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
411	7.980	1.985	30.03	.0000	180.0	428.7	.4500-01	1296.	94.30	1.989	3798.	.3969-04
412	7.980	1.997	30.03	.0000	180.0	431.9	.4500-01	1297.	94.40	2.004	3799.	.3996-04
413	7.980	1.981	30.07	.0000	180.0	430.0	.4500-01	1300.	94.60	1.995	3804.	.3969-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R	ST FR R =
411	7.595-07	3.452-01	0.0175	
412	7.601-07	3.475-01	.2883-01	
413	7.619-07	3.469-01	.2894-01	

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
412	.25000	.85000-01	938.00	.2000-02	.1700-02	.2000-02	.7100-04	.5890-04	.7100-04	.4400-01	.3300	542.2
412	.25000	.13500	939.00	.1600-02	.1300-02	.1600-02	.5580-04	.4621-04	.5580-04	.3500-01	.1560	541.8
412	.25000	.22500	940.00	.3500-02	.2900-02	.3500-02	.1201-03	.9947-04	.1201-03	.7500-01	.2090	542.2
412	.40000	.50000-01	941.00	.2040-01	.1690-01	.2040-01	.7093-03	.5860-03	.7093-03	.4370	3.880	551.1
412	.40000	.20000	942.00	.1110-01	.9200-02	.1110-01	.3972-03	.3200-03	.3972-03	.2390	1.771	549.6
412	.40000	.40000	943.00	.1800-02	.1500-02	.1800-02	.6352-04	.5250-04	.6350-04	.3500-01	.3240	548.4
412	.40000	.60000	944.00	.5000-03	.4000-03	.5000-03	.1869-04	.1545-04	.1869-04	.1200-01	.1170	546.7
412	.40000	.95000	945.00	.1200-02	.1000-02	.1200-02	.4031-04	.3341-04	.4031-04	.2500-01	.2260	539.5
412	.60000	.25000-01	946.00	.1200	.9760-01	.1200	.4171-02	.3332-02	.4171-02	2.354	46.29	602.9
412	.60000	.50000-01	947.00	.1217	.9970-01	.1217	.4229-02	.3454-02	.4229-02	2.483	30.18	580.1
412	.60000	.10000-00	948.00	.5530-01	.4610-01	.5530-01	.1944-02	.1602-02	.1944-02	1.183	10.46	558.6
412	.60000	.20000	949.00	.1760-01	.1460-01	.1760-01	.6129-03	.5061-03	.6129-03	.3770	2.881	552.6
412	.60000	.40000	950.00	.2500-02	.2100-02	.2500-02	.8734	.7220-04	.8736-04	.5400-01	.4610	549.4
412	.60000	.60000	951.00	.1500-02	.1200-02	.1500-02	.5234	.4330-04	.5236-04	.3200-01	.2880	547.8
412	.60000	.80000	952.00	.1300-02	.1000-02	.1300-02	.4348-04	.3601-04	.4346-04	.2700-01	.2160	541.9
412	.60000	.95000	953.00	.3500-02	.2900-02	.3500-02	.1216-03	.1007-03	.1216-03	.7600-01	.8940	540.9
412	.70000	.20000	954.00	.2270-01	.1870-01	.2270-01	.7884-03	.6509-03	.7884-03	.4840	3.973	553.4

(RV1U41)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	4/HREF (TAW)	H(OTO) BTU/ R FT2SEC	H(UTO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
412	70000	40000	955.00	.1260-01	.1040-01	.1260-01	.4378-03	.3616-03	.4378-03	.2690	2.215	551.5
412	70000	.90000	956.00	.4000-03	.3000-03	.4000-03	.1358-04	.1125-04	.1358-04	.9000-02	.7000-01	540.8
412	75000	10000+00	957.00	.6800-01	.7240-01	.8600-01	.3057-02	.2518-02	.3057-02	1.852	15.14	561.4
412	75000	.20000	958.00	.4450-01	.3670-01	.4450-01	.1545-02	.1274-02	.1545-02	.9430	8.354	556.6
412	75000	.40000	959.00	.1560-01	.1290-01	.1560-01	.5431-03	.4485-03	.5431-03	.3340	2.851	551.9
412	75000	.60000	960.00	.1090-01	.9000-02	.1090-01	.3794-03	.3135-03	.3794-03	.2340	2.000	550.0
412	75000	.90000	962.00	.1100-02	.9000-03	.1100-02	.3936-04	.3261-04	.3936-04	.2500-01	.2040	540.6
412	80000	.90000	963.00	.4300-02	.3500-02	.4300-02	.1486-03	.1231-03	.1486-03	.9300-01	.7270	541.8
412	90000	.20000	964.00	.5800-01	.4780-01	.5800-01	.2016-02	.1662-02	.2016-02	1.228	10.87	557.9
412	90000	.40000	965.00	.3030-01	.2500-01	.3030-01	.1052-02	.8692-03	.1052-02	.6480	5.755	551.2
412	95000	.40000	967.00	.4260-01	.3510-01	.4260-01	.1479-02	.1221-02	.1479-02	.9090	6.719	552.8
412	95000	.80000	968.00	.3900-02	.3200-02	.3900-02	.1362-03	.1128-03	.1362-03	.8500-01	.6550	541.9

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U41)

## PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = -7.000 SPDRK = 40.00  
EDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO FSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
420	8.000	3.778	30.07	.0000	180.0	850.7	.8800-01	1337.	96.90	3.950	3858.	.7635-04
421	8.000	3.775	30.01	.0000	190.0	850.6	.8800-01	1342.	97.30	3.940	3866.	.7586-04
422	8.000	3.778	30.06	.0000	160.0	850.4	.8800-01	1349.	97.70	3.939	3875.	.7549-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	ST FR R =
420	.7739-07	.4905-01	0.5175
421	.7931-07	.4932-01	.2092-01
422	.7868-07	.4906-01	.2106-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(ISTO) BTU/ R FT <sup>2</sup> SEC	H(TO) BTU/ R FT <sup>2</sup> SEC	H(TAN) BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TW DEG. R
421	.25000	.85000-01	938.00	.3200-02	.2600-02	.3200-02	.1549-03	.1290-03	.1549-03	.1030	.7700	540.1
421	.25000	.13500	939.00	.1500-02	.1200-02	.1500-02	.7254-04	.6042-04	.7254-04	.4900-01	.2170	539.3
421	.25000	.28500	940.00	.3000-02	.2500-02	.3000-02	.1445-03	.1204-03	.1445-03	.9700-01	.2700	540.1
421	.40000	.50000-01	941.00	.2940-01	.2440-01	.2940-01	.1440-02	.1194-02	.1440-02	.9410	8.339	554.7
421	.40000	.20000	942.00	.2190-01	.1820-01	.2190-01	.1073-02	.8309-03	.1073-02	.7050	5.212	551.6
421	.40000	.40000	943.00	.1500-02	.1500-02	.1500-02	.9087-04	.7552-04	.9087-04	.6000-01	.4940	548.0
421	.40000	.60000	944.00	.8000-03	.7000-03	.8000-03	.3910-04	.3250-04	.3910-04	.2600-01	.2610	547.4
421	.60000	.80000	945.00	.1600-02	.1400-02	.1600-02	.8057-04	.6739-04	.8057-04	.5400-01	.4810	539.7
421	.60000	.20000-01	946.00	.1154	.9460-01	.1154	.5708-02	.4637-02	.5708-02	.3318	64.50	626.9
421	.60000	.50000-01	947.00	.1202	.9370-01	.1202	.5894-02	.4836-02	.5894-02	3.618	43.66	594.3
421	.60000	.10000-00	948.00	.5710-01	.4730-01	.5710-01	.2801-02	.2319-02	.2801-02	1.812	16.01	551.2
421	.60000	.20000	949.00	.2950-01	.1700-01	.2950-01	.1005-02	.8338-03	.1005-02	.6530	5.028	553.6
421	.60000	.40000	950.00	.2900-02	.2400-02	.2900-02	.1403-03	.1166-03	.1403-03	.9300-01	.7910	548.7
421	.60000	.60000	951.00	.3300-02	.2800-02	.3300-02	.1634-03	.1358-03	.1634-03	.1080	.9600	547.5
421	.60000	.80000	952.00	.2000-02	.1700-02	.2000-02	.9639-04	.8240-04	.9639-04	.6600-01	.5260	541.5
421	.60000	.95000	953.00	.5300-02	.4400-02	.5300-02	.2591-03	.2157-03	.2591-03	.1730	2.029	541.2
421	.70000	.20000	954.00	.3030-01	.2510-01	.3030-01	.1485-02	.1232-02	.1485-02	.9690	7.944	555.9

AEDC VKF V41B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V41B-57A) ORBITTER UPPER WING

DATE 25 AUG 76

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	V/HREF R=1.0	H/HREF (TAW)	H(1TO) BTU/R FT2SEC	H(1TO) BTU/R FT2SEC	H(1TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG/R /SEC	TW DCG/R
421	.70000	.40000	955.00	.2350-01	.1950-01	.2350-01	.1159-02	.9603-03	.1158-02	.7560	5.225	553.4
421	.70000	.90000	956.00	.9000-03	.8000-03	.9000-03	.4457-04	.3712-04	.4457-04	.3000-01	.2470	539.1
421	.75000	.10000+00	957.00	.1733	.8940-01	.1033	.5308-02	.4385-02	.5308-02	3.382	27.54	570.9
421	.75000	.20000	958.00	.6150-01	.5090-01	.6150-01	.3014-02	.2496-02	.3014-02	1.950	17.23	561.0
421	.75000	.40000	959.00	.2250-01	.1870-01	.2250-01	.1106-02	.9185-03	.1106-02	.7260	6.195	552.0
421	.75000	.60000	960.00	.1710-01	.1420-01	.1710-01	.8371-03	.6332-03	.8371-03	.5510	4.704	550.2
421	.75000	.80000	962.00	.1400-02	.1200-02	.1400-02	.6979-04	.5813-04	.6979-04	.4700-01	.3870	538.7
421	.80000	.90000	963.00	.7600-02	.5300-02	.7600-02	.3714-03	.3032-03	.3714-03	.2480	1.943	540.1
421	.90000	.20000	964.00	.8740-01	.7230-01	.8740-01	.4266-02	.3545-02	.4266-02	2.753	24.27	565.7
421	.90000	.40000	965.00	.4780-01	.3370-01	.4780-01	.2345-02	.1946-02	.2345-02	1.533	13.60	554.2
421	.95000	.40000	967.00	.7540-01	.6240-01	.7540-01	.3694-02	.3058-02	.3694-02	2.384	17.54	562.7
421	.95000	.80000	968.00	.6300-02	.5300-02	.6300-02	.3111-03	.2591-03	.3111-03	.2080	1.602	539.3

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 25 AUG 76

AEDC VKI V41B-57A (OH-49B) COLLATION DECK

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(RV1UW2)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

UPPER WING

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = -7.000 SPOBRK = 40.00  
 BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

PUN NUMBER	MACH	RN/L X10.6 FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
395	7.900	.5313	40.06	.0000	180.0	1.0.3	1285.	95.30	.5350	3779.	.1079-04
397	7.900	.5335	40.05	.0000	180.0	1.0.1	1286.	95.40	.5340	3781.	.1076-04
398	7.900	.5331	40.05	.0000	180.0	1.0.4	1288.	95.50	.5360	3783.	.1078-04

PUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HREF BTU/ R	SI FR R =
395	.7573-07	.1793-01	.5543-01	0.0175
397	.7591-07	.1792-01	.5552-01	
398	.7690-07	.1795-01	.5548-01	

## \*\*\*TEST DATA\*\*\*

PUN NUMBER	2Y/B	X/C	I/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1TAW) BTU/ R FT2SEC	ODOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
397	.25000	.85000-01	939.00	.1700-02	.1400-02	.1700-02	.2965-04	.2457-04	.2965-04	.1800-01	.1370	536.3
397	.25000	.13500	939.00	.1400-02	.1100-02	.1400-02	.2452-04	.2032-04	.2452-04	.1500-01	.6800-01	535.9
397	.25000	.23500	940.00	.2600-02	.2100-02	.2600-02	.4595-04	.3907-04	.4595-04	.2900-01	.8000-01	536.6
397	.40000	.50000-01	941.00	.1020-01	.8400-02	.1020-01	.1824-03	.1510-03	.1824-03	.1130	1.006	539.9
397	.40000	.20000	942.00	.5000-02	.4200-02	.5000-02	.9001-04	.7448-04	.9001-04	.5600-01	.4130	540.5
397	.40000	.40000	943.00	.7000-03	.6000-03	.7000-03	.1265-04	.1046-04	.1265-04	.8000-02	.6500-01	540.4
397	.40000	.95000	945.00	.1900-02	.1600-02	.1900-02	.2849-04	.2849-04	.2849-04	.2.00-01	.1920	540.3
397	.60000	.50000-01	946.00	.1032	.8400-01	.1032	.1849-02	.1521-02	.1849-02	1.101	22.11	562.0
397	.60000	.50000-01	947.00	.9550-01	.7970-01	.9550-01	.1732-02	.1428-02	.1732-02	1.047	12.90	553.0
397	.60000	.10000-00	948.00	.4110-01	.3390-01	.4110-01	.7359-03	.6083-03	.7359-03	.4510	4.019	544.6
397	.60000	.20000	949.00	.1850-01	.1530-01	.1850-01	.3310-03	.2737-03	.3310-03	.2030	1.562	543.4
397	.60000	.40000	950.00	.2600-02	.2100-02	.2600-02	.4615-04	.3618-04	.4615-04	.2900-01	.2440	541.5
397	.60000	.60000	951.00	.1100-02	.9000-03	.1100-02	.1924-04	.1592-04	.1924-04	.1200-01	1.060	539.9
397	.60000	.80000	952.00	.9000-03	.8000-03	.9000-03	.1648-04	.1366-04	.1648-04	.1000-01	.8200-01	535.7
397	.60000	.95000	953.00	.3600-02	.3000-02	.3600-02	.6422-04	.5323-04	.6422-04	.4000-01	.4710	524.7
397	.70000	.20000	954.00	.1300-01	.1100-01	.1300-01	.2337-03	.1913-03	.2337-03	.1470	1.210	543.3
397	.70000	.40000	955.00	.6300-02	.5200-02	.6300-02	.1128-03	.9332-04	.1128-03	.6900-01	.5730	542.6

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING (RV1U42)

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
397	.70000	.90000	956.00	.1100-02	.9000-03	.1100-02	.1975-04	.1637-04	.1975-04	.1200-01	.1020	534.8
397	.75000	.10000*00	957.00	.4270-01	.3590-01	.4340-01	.7784-03	.6435-03	.7784-03	.4780	3.940	544.2
397	.75000	.20000	958.00	.2060-01	.1700-01	.2060-01	.3683-03	.3045-03	.3683-03	.2260	2.016	543.5
397	.75000	.40000	959.00	.7900-02	.6500-02	.7500-02	.1417-03	.1172-03	.1417-03	.8700-01	.7470	542.5
397	.75000	.60000	960.00	.3300-02	.2700-02	.3300-02	.5908-04	.4889-04	.5908-04	.3600-01	.3130	540.2
397	.75000	.80000	962.00	.8000-03	.6000-03	.8000-03	.1364-04	.1130-04	.1364-04	.6000-02	.7000-01	534.5
397	.80000	.90000	963.00	.1100-02	.9000-03	.1100-02	.1940-04	.1608-04	.1940-04	.1200-01	.9500-01	534.6
397	.90000	.20000	964.00	.3810-01	.3150-01	.3910-01	.6823-03	.5642-03	.6823-03	.4190	3.738	543.2
397	.90000	.40000	965.00	.1650-01	.1370-01	.1650-01	.2963-03	.2452-03	.2963-03	.1830	1.634	540.1
397	.95000	.45000	967.00	.2790-01	.2310-01	.2790-01	.4995-03	.4135-03	.4995-03	.3090	2.298	539.6
397	.95000	.80000	968.00	.2100-02	.1700-02	.2100-02	.3764-04	.3119-04	.3764-04	.2300-01	.1810	534.9



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1042)

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = -7.000 SPDBRK = 40.00  
 BOFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RV/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
405	7.940	1.025	40.07	.0000	180.0	210.2	.2300-01	1264.	92.90	.9360	3749.	.2043-04
406	7.940	1.021	40.07	.0000	180.0	209.5	.2300-01	1264.	92.90	.9950	3749.	.2036-04
407	7.940	1.020	40.06	.0000	180.0	209.9	.2300-01	1266.	93.00	.9970	3753.	.2036-04

RUN NUMBER	MU	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
405	.7476-07		.2441-01	0.0175
406	.7477-07		.2437-01	.4028-01
407	.7490-07		.2440-01	.4029-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
405	.25000	.85000-01	938.00	.5800-02	.4800-02	.5800-02	.1408-03	.1163-03	.1408-03	.8400-01	.6270	539.1
406	.25000	.13500	939.00	.1300-02	.1100-02	.1300-02	.3286-04	.2713-04	.3286-04	.2000-01	.8800-01	539.3
405	.25000	.22500	940.00	.1900-02	.1600-02	.1900-02	.4586-04	.3726-04	.4586-04	.2700-01	.7700-01	539.8
405	.40000	.50000-01	941.00	.1030-01	.8500-02	.1030-01	.2508-03	.2067-03	.2508-03	.1490	1.324	544.9
406	.40000	.20000	942.00	.7600-02	.6300-02	.7600-02	.1858-03	.1531-03	.1858-03	.1100	.8160	545.7
406	.40000	.40000	943.00	.6000-03	.6000-03	.6000-03	.1565-04	.1554-04	.1885-04	.1100-01	.9200-01	545.2
406	.40000	.60000	944.00	.1700-02	.1400-02	.1700-02	.4032-04	.3324-04	.4032-04	.2400-01	.2420	544.2
406	.40000	.95000	945.00	.1300-02	.1100-02	.1300-02	.3126-04	.2581-04	.3126-04	.1900-01	.1670	538.5
406	.60000	.25000-01	946.00	.1115	.9100-01	.1115	.2718-02	.2219-02	.2718-02	1.529	30.49	574.9
406	.60000	.50000-01	947.00	.1024	.8480-01	.1034	.2520-02	.2068-02	.2520-02	1.457	17.89	559.5
406	.60000	.10000+00	948.00	.4350-01	.3550-01	.4350-01	.1060-02	.8724-03	.1060-02	.6220	5.525	550.8
406	.60000	.20000	949.00	.2420-01	.1930-01	.2420-01	.5890-03	.4849-03	.5890-03	.3460	2.654	549.4
406	.60000	.40000	950.00	.2700-02	.2200-02	.2700-02	.6479-04	.5337-04	.6479-04	.3600-01	.3280	546.7
406	.60000	.60000	951.00	.1400-02	.1200-02	.1400-02	.3503-04	.2387-04	.3503-04	.2100-01	.1850	545.2
406	.60000	.85000	952.00	.1000-02	.8000-03	.1000-02	.2435-04	.2029-04	.2435-04	.1500-01	.1160	540.4
406	.60000	.95000	953.00	.4500-02	.3700-02	.4500-02	.1056-03	.9750-04	.1056-03	.6600-01	.7710	539.4
406	.70000	.20000	954.00	.1590-01	.1310-01	.1590-01	.3684-03	.3197-03	.3684-03	.2290	1.832	549.0

(RV1U42)

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

DATE 25 AUG 76

PUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(GTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
406	.70000	.40000	955.00	.1060-01	.8700-02	.1060-01	.2577-03	.2122-03	.2577-03	.1520	1.251	547.9
406	.70000	.90000	956.00	.1900-02	.1600-02	.1900-02	.4636-04	.3827-04	.4636-04	.2800-01	.2290	539.2
406	.75000	.10000+00	957.00	.6590-01	.5170-01	.6290-01	.1532-02	.1260-02	.1532-02	.8950	7.358	552.9
406	.75000	.20000	958.00	.3130-01	.2570-01	.3120-01	.7607-03	.6261-03	.7607-03	.4470	3.973	549.8
406	.75000	.40000	959.00	.1070-01	.8300-02	.1070-01	.2609-03	.2148-03	.2609-03	.1540	1.315	547.9
406	.75000	.60000	960.00	.5903-02	.4800-02	.5900-02	.1427-03	.1176-03	.1427-03	.8430-01	.7220	546.3
406	.75000	.80000	962.00	.1200-02	.1000-02	.1200-02	.2891-04	.2366-04	.2891-04	.1700-01	.1430	539.8
406	.80000	.90000	963.00	.1800-02	.1400-02	.1800-02	.4274-04	.3520-04	.4274-04	.2600-01	.2000	539.1
406	.90000	.20000	964.00	.6190-01	.5090-01	.6190-01	.1508-02	.1240-02	.1508-02	.9820	7.831	552.3
406	.90000	.40000	965.00	.2860-01	.2350-01	.2860-01	.6966-03	.5739-03	.6966-03	.4110	3.660	547.0
406	.95000	.40000	967.00	.5010-01	.4120-01	.5010-01	.1220-02	.1005-02	.1220-02	.7190	5.327	548.3
406	.95000	.60000	968.00	.4100-02	.3400-02	.4100-02	.1002-03	.8268-04	.1002-03	.6000-01	.4610	539.6

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DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) CRBITER UPPER WING

(RV1U42)

UPPER WING

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = -7.000 SPDGRK = 40.00  
BOFLAP = 15.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
414	7.990	40.09	.0000	180.0	420.6	.4500-01	1302.	94.80	1.998	3807.	.3968-04
415	7.990	40.12	.0000	180.0	429.8	.4500-01	1307.	95.10	1.995	3814.	.3946-04
416	7.990	40.10	.0000	180.0	429.1	.4500-01	1309.	95.30	1.991	3816.	.3934-04

RUN NUMBER	MU	LB-SEC /FT <sup>2</sup>	HRF BTU/ R FT <sup>2</sup> SEC	ST FR R =
414	.7632-07	.3473-01	.2834-01	0.0175
415	.7659-07	.3472-01	.2903-01	
416	.7669-07	.3473-01	.2908-01	

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H1GTO BTU/ R FT <sup>2</sup> SEC	H1TO BTU/ R FT <sup>2</sup> SEC	H1TAW BTU/ R FT <sup>2</sup> SEC	QDOT BTU/ R FT <sup>2</sup> SEC	DTHOT DEG. R /SEC	TW DEG. R
415	.25000	.85000-01	938.00	.3600-02	.2900-02	.3600-02	.1234-03	.1023-03	.1234-03	.7300-01	.5810	542.8
415	.25000	.13500	939.00	.1000-02	.8000-03	.1000-02	.3520-04	.2918-04	.3520-04	.2300-01	.9900-01	543.3
415	.40000	.50000-01	941.00	.2060-01	.1710-01	.2060-01	.7165-03	.5921-03	.7165-03	.4450	3.952	554.1
415	.40000	.20000	942.00	.1660-01	.1370-01	.1660-01	.5745-03	.4750-03	.5745-03	.3590	2.647	552.9
415	.40000	.40000	943.00	.6000-03	.5000-03	.6000-03	.1955-04	.1617-04	.1955-04	.1200-01	.1000+00	551.3
415	.40000	.50000	944.00	.1200-02	.1000-02	.1200-02	.4176-04	.3455-04	.4176-04	.2600-01	.2640	549.8
415	.40000	.50000	945.00	.1700-02	.1400-02	.1700-02	.5779-04	.4791-04	.5779-04	.3700-01	.3270	542.1
415	.60000	.25000-01	946.00	.1276	.1040	.1276	.4430-02	.3611-02	.4430-02	2.554	50.32	599.5
415	.60000	.50000-01	947.00	.1271	.1043	.1271	.4411-02	.3522-02	.4411-02	2.644	32.12	576.7
415	.60000	.10000-00	948.00	.4670-01	.3850-01	.4670-01	.1621-02	.1338-02	.1621-02	1.002	8.651	558.4
415	.60000	.20000	949.00	.3420-01	.2820-01	.3420-01	.1185-02	.9793-03	.1185-02	.7340	5.630	557.4
415	.60000	.40000	950.00	.3600-02	.2900-02	.3600-02	.1234-03	.1021-03	.1234-03	.7700-01	.6570	552.6
415	.60000	.60000	951.00	.3200-02	.3200-02	.3200-02	.1325-03	.1086-03	.1325-03	.8300-01	.7350	551.4
415	.60000	.85000	952.00	.1700-02	.1400-02	.1700-02	.5782-04	.4792-04	.5782-04	.3700-01	.2910	544.2
415	.60000	.95000	953.00	.5800-02	.4800-02	.5800-02	.1939-03	.1657-03	.1939-03	.1270	1.486	542.8
415	.70000	.20000	954.00	.2260-01	.1870-01	.2260-01	.7847-03	.6482-03	.7847-03	.4870	3.995	555.6
415	.70000	.40000	955.00	.1860-01	.1540-01	.1860-01	.6472-03	.5347-03	.6472-03	.4020	3.301	554.6

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1U42)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

PUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF ITAW	H19TO BTU/ R FT2SEC	H1TO BTU/ R FT2SEC	H1TAW BTU/ R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
415	.70000	.90000	956.00	.2500-02	.2100-02	.2500-02	.8588-04	.7121-04	.8588-04	.5400-01	.4500	541.9
415	.75000	.10000+00	957.00	.9050-01	.7460-01	.9050-01	.3143-02	.2590-02	.3143-02	1.927	15.75	563.0
415	.75000	.20000	958.00	.4340-01	.3590-01	.4340-01	.1507-02	.1245-02	.1507-02	.9330	8.259	557.2
415	.75000	.40000	959.00	.1570-01	.1290-01	.1570-01	.5437-03	.4495-03	.5437-03	.3390	2.890	552.9
415	.75000	.60000	960.00	.1250-01	.1030-01	.1250-01	.4330-03	.3581-03	.4330-03	.2700	2.308	551.8
415	.75000	.80000	962.00	.3500-02	.2900-02	.3500-02	.1229-03	.1019-03	.1229-03	.7800-01	.6440	542.0
415	.80000	.90000	963.00	.3300-02	.2800-02	.3300-02	.1150-03	.9621-04	.1150-03	.7400-01	.5760	541.4
415	.90000	.20000	964.00	.9260-01	.7630-01	.9260-01	.3215-02	.2650-02	.3215-02	1.970	17.39	563.3
415	.90000	.40000	965.00	.4770-01	.3950-01	.4770-01	.1657-02	.1370-02	.1657-02	1.031	9.146	553.8
415	.95000	.40000	967.00	.8160-01	.6730-01	.8160-01	.2832-02	.2336-02	.2832-02	1.742	12.83	560.9
415	.95000	.80000	968.00	.6600-02	.5500-02	.6600-02	.2297-03	.1904-03	.2297-03	.1460	1.120	541.9

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U42)

UPPER WING

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELZVTR = -7.000 SPOBRK = 40.00  
BOFLAP = 15.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
423	8.000	3.726	40.07	.0000	180.0	860.0	.8800-01	1348.	97.70	3.946	3875.	.7564-04
424	8.000	3.751	40.11	.0000	180.0	860.0	.8800-01	1343.	97.30	3.950	3867.	.7600-04
425	8.000	3.746	40.09	.0000	180.0	859.1	.8800-01	1343.	97.30	3.942	3867.	.7588-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR P =
423	.7867-07	.4910-01	0.0175
424	.7836-07	.4908-01	.2104-01
425	.7833-07	.4904-01	.2098-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10I) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
424	.25000	.85000-01	938.00	.2200-02	.1900-02	.2200-02	.1099-03	.9149-04	.1099-03	.7300-01	.5450	541.8
424	.25000	.13500	939.00	.9000-03	.7000-03	.5000-03	.4321-04	.3597-04	.4321-04	.2900-01	.1290	541.5
424	.25000	.22500	940.00	.2000-02	.1700-02	.2000-02	.9814-04	.8167-04	.9814-04	.6500-01	.1820	543.0
424	.40000	.50000-01	941.00	.4000-01	.3310-01	.4000-01	.1962-02	.1624-02	.1962-02	1.264	11.15	564.5
424	.40000	.20000	942.00	.3620-01	.3000-01	.3620-01	.1775-02	.1470-02	.1775-02	1.152	8.490	559.5
424	.40000	.40000	943.00	.1000-02	.8000-03	.1000-02	.4670-04	.3876-04	.4670-04	.3100-01	.2520	553.1
424	.40000	.60000	944.00	.8000-03	.7000-03	.6000-03	.3897-04	.3235-04	.3897-04	.2600-01	.2580	552.8
424	.60000	.95000	945.00	.2300-02	.1900-02	.2300-02	.1110-03	.9235-04	.1110-03	.7400-01	.6580	543.5
424	.60000	.25000-01	946.00	.1348	.1094	.1348	.6617-02	.5370-02	.6617-02	3.827	74.28	630.3
424	.60000	.50000-01	947.00	.1238	.1056	.1238	.6373-02	.5232-02	.6373-02	3.925	47.41	592.9
424	.60000	.10000-00	948.00	.5770-01	.4780-01	.5770-01	.2832-02	.2344-02	.2832-02	1.826	16.11	564.2
424	.60000	.20000	949.00	.4760-01	.3940-01	.4760-01	.2338-02	.1935-02	.2338-02	1.508	11.48	563.5
424	.60000	.40000	950.00	.5350-02	.4400-02	.5300-02	.2603-03	.2160-03	.2603-03	.1710	1.455	553.2
424	.60000	.60000	951.00	.7200-02	.6000-02	.7200-02	.3524-03	.2926-03	.3524-03	.2310	2.054	552.1
424	.60000	.85000	952.00	.3400-02	.2800-02	.3400-02	.1672-03	.1391-03	.1672-03	.1110	.8830	544.6
424	.60000	.95000	953.00	.6900-02	.7400-02	.6900-02	.4360-03	.3627-03	.4360-03	.2900	3.396	544.4
424	.70000	.20000	954.00	.3710-01	.3070-01	.3710-01	.1821-02	.1508-02	.1821-02	1.181	9.666	560.2

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1U42)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUH NUMBER	2Y/B	X/C	1/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(GTO) BTU/ R FT2SEC	H(TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
424	.70000	.40000	955.00	.3210-01	.2660-01	.3210-01	.1575-02	.1306-02	.1575-02	1.026	8.407	557.5
424	.70000	.90000	956.00	.3400-02	.2800-02	.3400-02	.1648-03	.1371-03	.1648-03	.1100	.9080	541.8
424	.75000	.10000+00	957.00	.1297	.1070	.1297	.6368-02	.5253-02	.6368-02	4.028	32.70	576.2
424	.75000	.20000	958.00	.6690-01	.5540-01	.6590-01	.3285-02	.2719-02	.3285-02	2.120	18.71	563.5
424	.75000	.40000	959.00	.2580-01	.2140-01	.2580-01	.1265-02	.1050-02	.1265-02	.8280	7.062	554.1
424	.75000	.60000	960.00	.2640-01	.2190-01	.2640-01	.1295-02	.1074-02	.1295-02	.8460	7.204	555.6
424	.75000	.80000	962.00	.3400-02	.2800-02	.3400-02	.1678-03	.1397-03	.1678-03	.1120	.9260	540.8
424	.80000	.90000	963.00	.4500-02	.3700-02	.4500-02	.2203-03	.1835-03	.2203-03	.1470	1.155	539.3
424	.90000	.20000	964.00	.1294	.1057	.1294	.6354-02	.5238-02	.6354-02	4.008	35.11	578.0
424	.90000	.40000	965.00	.7640-01	.6330-01	.7640-01	.3751-02	.3106-02	.3751-02	2.425	21.42	562.2
424	.95000	.40000	967.00	.1057	.8800-01	.1057	.5239-02	.4320-02	.5239-02	3.306	24.13	577.9
424	.95000	.60000	968.00	.1050-01	.8900-02	.1060-01	.5217-03	.4345-03	.5217-03	.3490	2.685	540.2

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1U43)

## UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

## PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = -30.00 SPDRK = 40.00  
BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
450	7.300	.5299	19.99	.0000	180.0	109.5	.1200-01	1281.	95.00	.5320	3773.	.1074-04
451	7.900	.5307	19.99	.0000	180.0	110.1	.1200-01	1284.	95.30	.5340	3778.	.1077-04
452	7.900	.5299	20.00	.0000	180.0	110.1	.1200-01	1286.	95.40	.5340	3780.	.1076-04

RUN NUMBER	MJ	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
450	.7650-07		.1785-01	0.0175
451	.7670-07		.1792-01	.5553-01
452	.7677-07		.1792-01	.5550-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/8	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9T0) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(1AW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
451	.25000	.85000-01	938.00	.3400-02	.2800-02	.3400-02	.6116-04	.5072-04	.6116-04	.3800-01	.2850	531.9
451	.25000	.13500	939.00	.3400-02	.2800-02	.3400-02	.6089-04	.5049-04	.6089-04	.3800-01	.1700	532.2
451	.25000	.22500	940.00	.2300-02	.1900-02	.2300-02	.4170-04	.3458-04	.4170-04	.2600-01	.7300-01	532.4
451	.40000	.50000-01	941.00	.2370-01	.1960-01	.2370-01	.4248-03	.3519-03	.4248-03	.2630	2.355	536.3
451	.40000	.20000	942.00	.8200-02	.6800-02	.8200-02	.1462-03	.12.03	.1462-03	.9100-01	.6760	535.7
451	.40000	.40000	943.00	.1500-02	.1200-02	.1500-02	.2606-04	.752-05	.2506-04	.1600-01	.1340	535.2
451	.40000	.60000	944.00	.3000-03	.2000-03	.3000-03	.4575-05	.752-05	.4575-05	.3000-02	.2900-01	533.3
451	.40000	.95000	945.00	.1400-02	.1200-02	.1400-02	.2555-04	.121-04	.2555-04	.1600-01	.1440	528.1
451	.60000	.25000-01	946.00	.1166	.5590-01	.1166	.2089-02	.718-02	.2089-02	1.242	24.94	561.3
451	.60000	.50000-01	947.00	.1151	.9490-01	.1151	.2062-02	.1701-02	.2062-02	1.250	15.42	549.8
451	.60000	.10000-00	948.00	.5860-01	.4850-01	.5860-01	.1050-02	.6866-03	.1050-02	.6460	5.771	540.3
451	.60000	.20000	949.00	.1900-01	.1500-01	.1900-01	.3404-03	.2919-03	.3404-03	.2110	1.625	536.8
451	.60000	.40000	950.00	.4300-02	.3500-02	.4300-02	.7616-04	.6312-04	.7616-04	.4700-01	.4080	534.4
451	.60000	.60000	951.00	.1703-02	.1400-02	.1700-02	.2930-04	.2563-04	.2930-04	.1900-01	.1670	532.3
451	.60000	.85000	952.00	.1100-02	.9000-03	.1100-02	.1980-04	.1544-04	.1980-04	.1200-01	.1000+00	528.2
451	.60000	.95000	953.00	.2200-02	.1800-02	.2200-02	.3978-04	.3303-04	.3978-04	.2500-01	.2960	527.1
451	.70000	.20000	954.00	.2470-01	.2040-01	.2470-01	.4417-03	.3659-03	.4417-03	.2740	2.269	535.9

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1043)

RUN NUMBER	2Y'B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/R FT2SEC	H(10) BTU/R FT2SEC	H(TAN) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
451	.70000	.40000	955.00	.9300-02	.7700-02	.9300-02	.1660-03	.1376-03	.1660-03	.1030	.8560	534.1
451	.70000	.90000	956.00	.8400-02	.7000-02	.8400-02	.1505-03	.1250-03	.1505-03	.9500-01	.7880	527.1
451	.75000	.10000+00	957.00	.7240-01	.5990-01	.7240-01	.1296-02	.1074-02	.1296-02	.8030	6.651	535.5
451	.75000	.20000	958.00	.3010-01	.2490-01	.3010-01	.5391-03	.4466-03	.5391-03	.3350	2.994	535.4
451	.75000	.40000	959.00	.1340-01	.1110-01	.1340-01	.2395-03	.1965-03	.2395-03	.1490	1.285	533.2
451	.75000	.60000	960.00	.6200-02	.5200-02	.6200-02	.1114-03	.9236-04	.1114-03	.7000-01	.6000	531.4
451	.75000	.90000	962.00	.2370-01	.1900-01	.2370-01	.4241-03	.3520-03	.4241-03	.2660	2.214	528.2
451	.80000	.90000	963.00	.3930-01	.3260-01	.3930-01	.7047-03	.5848-03	.7047-03	.4420	3.477	529.4
451	.90000	.20000	964.00	.2990-01	.2480-01	.2990-01	.5348-03	.4435-03	.5348-03	.3340	2.992	532.1
451	.90000	.40000	965.00	.9200-02	.7600-02	.9200-02	.1642-03	.1362-03	.1642-03	.1030	.9240	539.2
451	.95000	.40000	967.00	.1440-01	.1190-01	.1440-01	.2577-03	.2139-03	.2577-03	.1620	1.212	528.0
451	.95000	.80000	968.00	.3700-02	.3100-02	.3700-02	.6630-04	.5508-04	.6630-04	.4200-01	.3240	525.4



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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1U43)

UPPER WING

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

PARAMETRIC DATA

ALPHA = 20.00 BETA = .0000 ELEVTR = -30.00 SPOBRK = 40.00  
BDFLAP = 15.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	P0 PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
453	7.980	1.986	19.97	.0000	180.0	428.1	.4500-01	1294.	94.20	1.987	3796.	.3968-04
454	7.980	1.994	19.97	.0000	180.0	428.4	.4500-01	1291.	94.00	1.988	3791.	.3980-04
455	7.980	2.008	19.97	.0000	180.0	430.3	.4500-01	1289.	93.80	1.997	3788.	.4005-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
453	.7585-07	.3459-01	0.0175
454	.7559-07	.3459-01	.2892-01
455	.7555-07	.3465-01	.2887-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/8	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(1TO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
454	.25000	.85000-01	938.00	.4400-02	.3600-02	.4400-02	.1507-03	.1233-03	.1507-03	.9600-01	.7210	524.5
454	.25000	.13500	939.00	.3800-02	.3100-02	.3800-02	.1300-03	.1082-03	.1300-03	.8300-01	.3740	527.7
454	.25000	.22500	940.00	.8600-02	.7200-02	.8600-02	.2974-03	.2473-03	.2974-03	.1900	.5330	524.5
454	.40000	.50000-01	941.00	.2310-01	.1920-01	.2310-01	.8005-03	.6646-03	.8005-03	.5050	4.535	530.8
454	.40000	.20000	942.00	.1250-01	.1040-01	.1250-01	.4317-07	.3586-03	.4317-03	.2730	2.046	529.0
454	.40000	.40000	943.00	.1600-02	.1300-02	.1600-02	.5586-04	.4642-04	.5586-04	.3500-01	.2950	527.5
454	.40000	.60000	944.00	.2000-03	.2000-03	.2000-03	.8097-05	.6731-05	.8097-05	.5000-02	.5300-01	525.9
454	.40000	.95000	945.00	.3000-02	.2500-02	.3000-02	.1043-03	.8678-04	.1043-03	.6700-01	.6000	523.3
454	.60000	.25000-01	946.00	.1155	.9430-01	.1155	.3937-02	.3263-02	.3937-02	2.295	45.47	588.1
454	.60000	.50000-01	947.00	.1188	.9730-01	.1188	.4110-02	.3387-02	.4110-02	2.485	30.54	557.7
454	.60000	.10000-00	948.00	.5270-01	.4370-01	.5270-01	.1823-02	.1511-02	.1823-02	1.113	10.23	535.3
454	.60000	.20000	949.00	.1600-01	.1320-01	.1600-01	.5517-03	.4581-03	.5517-03	.3110	2.695	530.7
454	.60000	.40000	950.00	.3700-02	.3100-02	.3700-02	.1293-03	.1074-03	.1293-03	.8200-01	.7070	529.1
454	.60000	.60000	951.00	.1300-02	.1100-02	.1300-02	.4443-04	.3692-04	.4443-04	.2800-01	.2530	527.5
454	.60000	.85000	952.00	.1100-02	.9700-03	.1100-02	.3736-04	.3107-04	.3736-04	.2400-01	.1920	524.2
454	.60000	.95000	953.00	.2000-02	.1700-02	.2000-02	.6934-04	.5768-04	.6934-04	.4400-01	.5250	523.6
454	.70000	.20000	954.00	.2600-01	.2160-01	.2600-01	.8986-03	.7455-03	.8986-03	.5650	4.689	533.3

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OH-498 (AEDC V41B-57A) ORBITER UPPER WING

(RV1U43)

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
454	70000	40000	955.00	.9900-02	.8200-02	.9900-02	.3414-03	.2833-03	.3414-03	.2150	1.786	532.0
454	70000	.90000	956.00	.1180-01	.9800-02	.1180-01	.4067-03	.3380-03	.4067-03	.2580	2.149	527.4
454	75000	.10000+00	957.00	.7830-01	.6490-01	.7830-01	.2708-02	.2244-02	.2708-02	1.691	14.00	537.6
454	75000	.20000	958.00	.3060-01	.2540-01	.3060-01	.1059-02	.8793-03	.1059-02	.6650	5.951	534.7
454	75000	.40000	959.00	.1500-01	.1243-01	.1500-01	.5181-03	.4299-03	.5181-03	.3260	2.810	532.9
454	75000	.60000	960.00	.4500-02	.3700-02	.4500-02	.1546-03	.1284-03	.1546-03	.9800-01	.8420	530.8
454	75000	.80000	962.00	.5070-01	.4200-01	.5070-01	.1754-02	.1454-02	.1754-02	1.100	9.114	535.2
454	80000	.90000	963.00	.9810-01	.8120-01	.9810-01	.3395-02	.2810-02	.3395-02	2.106	16.48	541.8
454	90000	.20000	964.00	.3550-01	.3280-01	.3550-01	.1370-02	.1136-02	.1370-02	.8560	7.653	537.6
454	90000	.40000	965.00	.1090-01	.9100-02	.1090-01	.3781-03	.3138-03	.3781-03	.2390	2.140	531.1
454	95000	.60000	967.00	.3330-01	.2760-01	.3330-01	.1150-02	.9542-03	.1150-02	.7220	5.389	534.6
454	95000	.80000	968.00	.4630-02	.3600-02	.4630-02	.1602-03	.1331-03	.1602-03	.1020	.7870	528.2

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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(RV1044)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

UPPER WING

PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = -30.00 SPOBRK = 40.00  
BOFLAP = 15.00 MACH = 8.0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
444	7.900	.5474	30.02	.0000	180.0	109.9	.1200-01	1257.	93.20	.5330	3737.	.1099-04
445	7.900	.5502	30.03	.0000	180.0	110.6	.1200-01	1258.	93.30	.5370	3739.	.1105-04
446	7.900	.5440	30.04	.0000	180.0	109.9	.1200-01	1262.	93.60	.5330	3745.	.1095-04

RUN NUMBER	MJ	LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
444	.7504-07	.1783-01	.1783-01	0.0175
445	.7510-07	.1789-01	.1789-01	.5464-01
446	.7535-07	.1785-01	.1785-01	.5493-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAH)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(11A) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
445	.25000	.85000-01	938.00	.5700-02	.4700-02	.5700-02	.1025-03	.8474-04	.1025-03	.6100-01	.4590	532.2
445	.25000	.13500	939.00	.2100-02	.1800-02	.2100-02	.3822-04	.3160-04	.3822-04	.2300-01	.1030	532.6
445	.25000	.22500	940.00	.4000-02	.30-02	.4000-02	.7139-04	.5901-04	.7139-04	.4300-01	.1200	535.8
445	.40000	.50000-01	941.00	.1420-01	.1180-01	.1420-01	.2103-03	.2103-03	.2546-03	.1520	1.358	535.1
445	.40000	.20000	942.00	.6200-02	.5100-02	.5203-02	.1103-03	.9110-04	.1103-03	.6600-01	.4900	535.9
445	.40000	.40000	943.00	.8000-03	.6000-03	.8000-03	.1370-04	.1132-04	.1370-04	.8000-02	.6800-01	535.1
445	.40000	.60000	944.00	.1200-02	.1000-02	.1200-02	.2119-04	.1751-04	.2297-04	.1300-01	.1290	529.8
445	.40000	.95000	945.00	.1700-02	.1400-02	.1700-02	.2339-02	.1864-02	.2239-02	.1800-01	.1600	563.4
445	.60000	.25000-01	946.00	.1251	.1025	.1251	.2239-02	.1633-02	.2239-02	1.273	2.53	552.9
445	.60000	.50000-01	947.00	.1269	.1042	.1269	.2239-02	.1864-02	.2239-02	1.314	16.19	540.7
445	.60000	.10000+00	948.00	.5140-01	.5060-01	.6140-01	.1039-02	.9051-03	.1058-02	.6490	5.792	537.2
445	.60000	.20000	949.00	.1700-01	.1420-01	.1700-01	.3038-03	.2509-03	.3038-03	.1810	1.393	534.9
445	.60000	.40000	950.00	.3500-02	.2900-02	.3500-02	.6351-04	.5246-04	.6351-04	.3800-01	.3260	533.2
445	.60000	.60000	951.00	.1100-02	.9000-02	.1100-02	.1970-04	.1628-04	.1970-04	.1200-01	.1060	530.0
445	.60000	.85000	952.00	.7000-03	.6000-03	.7000-03	.1296-04	.1072-04	.1296-04	.8000-02	.6300-01	530.0
445	.60000	.95000	953.00	.8000-03	.7000-03	.8000-03	.1440-04	.1191-04	.1440-04	.9000-02	.1030	528.8
445	.70000	.20000	954.00	.1990-01	.1650-01	.1990-01	.3567-03	.2945-03	.3567-03	.2120	1.757	536.9

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									(RV1044)			
RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(90) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(TAN) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWOT DEG. R /SEC	TH DEG. R
445	.70000	.40000	955.00	.8500-02	.7000-02	.8500-02	.1526-03	.1260-03	.1526-03	.9100-01	.7550	535.1
445	.70000	.90000	956.00	.1700-02	.1400-02	.1700-02	.3018-04	.2497-04	.3018-04	.1800-01	.1510	528.6
445	.75000	.10000+00	957.00	.5670-01	.4680-01	.5670-01	.1014-02	.8372-03	.1014-02	.6000	4.987	537.9
445	.75000	.20000	958.00	.2970-01	.2450-01	.2970-01	.5318-03	.4360-03	.5318-03	.3160	2.830	537.0
445	.75000	.40000	959.00	.1160-01	.9500-02	.1160-01	.2067-03	.1707-03	.2067-03	.1230	1.063	534.6
445	.75000	.60000	960.00	.5700-02	.4700-02	.5700-02	.1027-03	.8492-04	.1027-03	.6200-01	.5300	532.7
445	.75000	.90000	962.00	.8500-02	.7000-02	.8500-02	.1517-03	.1255-03	.1517-03	.9100-01	.7590	529.7
445	.80000	.90000	963.00	.1830-01	.1510-01	.1830-01	.3274-03	.2709-03	.3274-03	.1970	1.553	529.4
445	.90000	.20000	964.00	.2930-01	.2420-01	.2930-01	.5239-03	.4328-03	.5239-03	.3130	2.803	534.3
445	.90000	.40000	965.00	.1250-01	.1030-01	.1250-01	.2235-03	.1848-03	.2235-03	.1340	1.204	531.4
445	.95000	.40000	967.00	.1660-01	.1370-01	.1660-01	.2967-03	.2453-03	.2967-03	.1780	1.333	530.8
445	.95000	.80000	968.00	.6000-03	.5000-03	.6000-03	.1079-04	.8933-05	.1079-04	.7000-02	.5100-01	527.2

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

AEDC VKF V418-57A (OH-498) COLLATION DECK

DATE 25 AUG 76

OH-498 (AEDC V418-57A) ORBITER UPPER WING

UPPER WING

PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = -30.00 SPOBRK = 40.00  
BDFLAP = 15.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	FO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	QHO SLUGS /FT3
438	7.940	1.017	30.04	.0000	180.0	209.6	.2300-01	1268.	93.10	.9950	3755.	.2031-04
439	7.940	1.017	30.06	.0000	180.0	209.5	.2300-01	1267.	93.10	.9950	3754.	.2031-04
440	7.940	1.016	30.02	.0000	180.0	209.1	.2200-01	1267.	93.10	.9930	3753.	.2028-04

RUN NUMBER	MU	LB-SEC /FT2	ST FR R =
438	.7493-07		0.0175
439	.7494-07		.4034-01
440	.7493-07		.4037-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
439	.25000	.85000-01	938.00	.4200-02	.3500-02	.4200-02	.1034-03	.8555-04	.1034-03	.6300-01	.4700	532.1
439	.25000	.13500	939.00	.1900-02	.1600-02	.1900-02	.4739-04	.3921-04	.4739-04	.2900-01	.1290	533.2
439	.25000	.22500	940.00	.4600-02	.3900-02	.4600-02	.1129-03	.9342-04	.1129-03	.6800-01	.1920	533.9
439	.40000	.50000-01	941.00	.1510-01	.1250-01	.1510-01	.3687-03	.3045-03	.3687-03	.2220	1.983	538.3
439	.40000	.20000	942.00	.6700-02	.5500-02	.6700-02	.1640-03	.1355-03	.1640-03	.9900-01	.7360	537.8
439	.40000	.40000	943.00	.1100-02	.9000-03	.1100-02	.2623-04	.2159-04	.2623-04	.1600-01	.1310	537.0
439	.40000	.60000	944.00	.6000-03	.5000-03	.6000-03	.1432-04	.1184-04	.1432-04	.9000-02	.8800-01	535.1
439	.40000	.95000	945.00	.2200-02	.1800-02	.2200-02	.5355-04	.4455-04	.5355-04	.3300-01	.2940	529.3
439	.60000	.25000-01	946.00	.1255	.1025	.1255	.3059-02	.2503-02	.3059-02	1.734	34.62	573.1
439	.60000	.50000-01	947.00	.1255	.1031	.1255	.3061-02	.2514-02	.3061-02	1.785	21.94	557.0
439	.60000	.10000+00	948.00	.5760-01	.4750-01	.5760-01	.1405-02	.1159-02	.1405-02	.8380	7.474	543.3
439	.60000	.20000	949.00	.1600-01	.1320-01	.1600-01	.3896-03	.3218-03	.3896-03	.2340	1.805	538.8
439	.60000	.40000	950.00	.2600-02	.2300-02	.2600-02	.6867-04	.5676-04	.6867-04	.4100-01	.3570	536.3
439	.60000	.60000	951.00	.1000-02	.8000-03	.1000-02	.2334-04	.2035-04	.2334-04	.1500-01	.1380	534.0
439	.60000	.80000	952.00	.1100-02	.9000-03	.1100-02	.2796-04	.2315-04	.2796-04	.1700-01	.1370	529.4
439	.60000	.95000	953.00	.7000-03	.6000-03	.7000-03	.1636-04	.1355-04	.1636-04	.1030-01	.1180	527.6
439	.70000	.20000	954.00	.1930-01	.1550-01	.1930-01	.4856-03	.4012-03	.4856-03	.2930	2.422	537.7

(RV1U44)

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C 10	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	O JT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
439	.70000	.40000	955.00	.9100-02	.7500-02	.9100-02	.2223-03	.1838-03	.2223-03	.1340	1.113	535.8
439	.70000	.90000	956.00	.2200-02	.1900-02	.2200-02	.3448-04	.4515-04	.5448-04	.3300-01	.2780	527.0
439	.75000	.10000+00	957.00	.6300-01	.5200-01	.6300-01	.1537-02	.1269-02	.1537-02	.9230	7.630	539.6
439	.75000	.20000	958.00	.3350-01	.2770-01	.3360-01	.8183-03	.6761-03	.8183-03	.4930	4.405	538.0
439	.75000	.40000	959.00	.1280-01	.1050-01	.1280-01	.3126-03	.2585-03	.3126-03	.1890	1.627	535.3
439	.75000	.60000	960.00	.5700-02	.4800-02	.5700-02	.1401-03	.1159-03	.1401-03	.6500-01	.7320	533.2
439	.75000	.80000	961.00	.1010-01	.8400-02	.1010-01	.2471-03	.2047-03	.2471-03	.1510	1.258	527.9
439	.80000	.90000	962.00	.1550-01	.1300-01	.1550-01	.3813-03	.3159-03	.3813-03	.2330	1.839	528.1
439	.90000	.20000	964.00	.4330-01	.3530-01	.4390-01	.1071-02	.8958-03	.1071-02	.6470	5.793	535.9
439	.90000	.40000	965.00	.2140-01	.1770-01	.2140-01	.5210-03	.4312-03	.5210-03	.3170	2.839	532.2
439	.95000	.60000	967.00	.2250-01	.1850-01	.2250-01	.5489-03	.4544-03	.5489-03	.3340	2.500	530.9
439	.95000	.80000	968.00	.1400-02	.1100-02	.1400-02	.3328-04	.2750-04	.3328-04	.2000-01	.1590	525.5

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

DATE 25 AUG 76

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

UPPER WING

PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = -30.00 SPOBRK = 40.00  
BOFLAP = 15.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
432	7.980	30.05	.0000	180.0	430.2	.500-01	1303.	94.90	1.996	3808.	.3961-04
433	7.980	30.05	.0000	180.0	429.6	.4500-01	1297.	94.50	1.994	3800.	.3972-04
434	7.980	30.05	.0000	180.0	428.3	.4500-01	1296.	94.40	1.988	3798.	.3964-04

RUN NUMBER	MJ	LB-SEC /FT2	RN/L X10.6 /FT	HREF BTU/ R FT2SEC	ST FR R =
432	.7637-07		1.975	180.0	0.0175
433	.7605-07		1.585	180.0	.2897-01
434	.7597-07		1.582	180.0	.2832-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2V/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
433	.25000	.85000-01	939.00	.5300-02	.4400-02	.5300-02	.1851-03	.1535-03	.1851-03	.1170	.8720	536.0
433	.25000	.17500	939.00	.1800-02	.1500-02	.1800-02	.6281-04	.5211-04	.6281-04	.4000-01	.1770	536.1
433	.25000	.22500	940.00	.2100-02	.1700-02	.2100-02	.7253-04	.6016-04	.7253-04	.4600-01	.1280	537.0
433	.40000	.50000-01	941.00	.2010-01	.1660-01	.2010-01	.6959-03	.5766-03	.6959-03	.4330	3.860	545.7
433	.40000	.20000	942.00	.1060-01	.8300-02	.1060-01	.3740-03	.3095-03	.3740-03	.2330	1.732	544.2
433	.40000	.40000	943.00	.1600-02	.1300-02	.1600-02	.5458-04	.4519-04	.5458-04	.3400-01	.2810	543.2
433	.40000	.60000	944.00	.9000-03	.8000-03	.9000-03	.3248-04	.2691-04	.3248-04	.2000-01	.2060	541.4
433	.40000	.8000-03	945.00	.8000-03	.7000-03	.8000-03	.2746-04	.2279-04	.2746-04	.1700-01	.1560	533.9
433	.60000	.25000-01	946.00	.1211	.9870-01	.1211	.4198-02	.3421-02	.4198-02	2.399	47.35	596.2
433	.60000	.50000-01	947.00	.1228	.1008	.1228	.4256-02	.3493-02	.4256-02	2.528	30.82	573.8
433	.60000	.10000-00	948.00	.5570-01	.4600-01	.5570-01	.1930-02	.1593-02	.1930-02	1.187	10.53	552.7
433	.60000	.20000	949.00	.1800-01	.1490-01	.1800-01	.6249-03	.5169-03	.6249-03	.3880	2.976	546.9
433	.60000	.40000	950.00	.2900-02	.2400-02	.2900-02	.1013-03	.8388-04	.1013-03	.6300-01	.5420	543.5
433	.60000	.60000	951.00	.1600-02	.1300-02	.1600-02	.5487-04	.4545-04	.5487-04	.3400-01	.3070	541.4
433	.60000	.8000-02	952.00	.1000-02	.8000-03	.1000-02	.3332-04	.2814-04	.3332-04	.2100-01	.1710	535.4
433	.60000	.9000-02	953.00	.1000-02	.9000-03	.1000-02	.3597-04	.2986-04	.3597-04	.2300-01	.2630	533.6
433	.76000	.20000	954.00	.2280-01	.1890-01	.2280-01	.7904-03	.6537-03	.7904-03	.4900	4.039	547.4

(RV1U44)

AEDC VKF V41B-57A (OH-498) COLLATION DECK

OH-498 (AEDC V41B-57A) ORBITER UPPER WING

DATE 25 AUG 76

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(UTO) BTU/ R FT2SEC	H(UTO) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
433	.70000	.40000	955.00	.1450-01	.1200-01	.1450-01	.5040-03	.4171-03	.5040-03	.3140	2.587	545.2
433	.70000	.90000	955.00	.2100-02	.1800-02	.2100-02	.7441-04	.6176-04	.7441-04	.4700-01	.3910	533.9
433	.75000	.10000+00	957.00	.7940-01	.6560-01	.7940-01	.2754-02	.2273-02	.2754-02	1.688	13.86	554.6
433	.75000	.20000	958.00	.4460-01	.3680-01	.4460-01	.1543-02	.1277-02	.1545-02	.9550	8.488	549.7
433	.75000	.40000	959.00	.1650-01	.1360-01	.1650-01	.5716-03	.4730-03	.5716-03	.3560	3.049	544.9
433	.75000	.60000	960.00	.9000-02	.7500-02	.9000-02	.3132-03	.2594-03	.3132-03	.1960	1.680	542.3
433	.75000	.80000	962.00	.9400-02	.7800-02	.9400-02	.3274-03	.2716-03	.3274-03	.2070	1.713	536.3
433	.80000	.90000	963.00	.2060-01	.1710-01	.2060-01	.7135-03	.5919-03	.7135-03	.4500	3.534	536.5
433	.90000	.20000	964.00	.6250-01	.5160-01	.6250-01	.1790-02	.1790-02	.2166-02	1.337	11.87	550.6
433	.90000	.40000	965.00	.3170-01	.2630-01	.3170-01	.1100-02	.9107-03	.1100-02	.6870	6.122	543.4
433	.95000	.40000	967.00	.4210-01	.3480-01	.4210-01	.1459-02	.1208-02	.1459-02	.9100	6.754	544.4
433	.95000	.80000	968.00	.2800-02	.2400-02	.2800-02	.9860-04	.8166-04	.9860-04	.6300-01	.4830	533.2



DATE 25 AUG 76

AEDC VKF V41B-57A (OH-49B) COLLATION DLCK

PAGE 799

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U44)

UPPER WING

PARAMETRIC DATA

ALPHA = 30.00 BETA = .0000 ELEVTR = -30.00 SPD8RK = 40.00  
 BOFLAP = 15.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAH DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	O PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
426	8.000	3.697	30.10	.0000	180.0	860.4	.8800-01	1355.	98.20	3.948	3885.	.7527-04
427	8.000	3.692	30.05	.0000	180.0	860.2	.8800-01	1357.	99.30	3.947	3987.	.7519-04
428	8.000	3.692	30.06	.0000	180.0	860.2	.8800-01	1357.	99.30	3.947	3887.	.7519-04

RUN NUMBER	MJ	LB-SEC /FT <sup>2</sup>	ST FR R =
426	.7909-07	.4916-01	0.0175
427	.7915-07	.4916-01	.2110-01
428	.7916-07	.4916-01	.2111-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(14N) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
427	.25000	.85000-01	938.00	.3000-02	.2500-02	.3000-02	.1465-03	.1220-03	.1465-03	.9900-01	.7310	547.7
427	.25000	.13500	939.00	.1500-02	.1300-02	.1500-02	.7579-04	.6309-04	.7579-04	.5100-01	.2270	547.3
427	.25000	.22500	940.00	.1000-02	.8000-03	.1000-02	.4738-04	.3944-04	.4738-04	.3200-01	.8900-01	547.5
427	.40000	.50000-01	941.00	.2920-01	.2420-01	.2920-01	.1434-02	.1190-02	.1434-02	.9480	8.385	559.7
427	.40000	.20000	942.00	.1800-01	.1800-01	.2270-01	.1114-02	.9249-03	.1114-02	.7400	5.463	556.4
427	.40000	.40000	943.00	.1800-02	.1500-02	.1800-02	.8743-04	.7265-04	.8743-04	.5800-01	.4790	554.0
427	.40000	.60000	944.00	.6000-03	.5000-03	.6000-03	.2375-04	.5903-04	.2657-04	.1900-01	.1930	552.2
427	.40000	.90000	945.00	.1400-02	.1200-02	.1400-02	.6951-04	.5903-04	.6951-04	.4700-01	.4220	541.1
427	.60000	.20000-01	946.00	.1167	.9480-01	.1167	.5735-02	.4663-02	.5735-02	.3384	65.64	631.0
427	.60000	.50000-01	947.00	.1212	.9350-01	.1212	.5350-02	.4895-02	.5350-02	3.714	44.76	597.8
427	.60000	.10000-00	948.00	.5890-01	.4890-01	.5890-01	.2695-02	.2400-02	.2695-02	1.903	16.80	563.7
427	.60000	.20000	949.00	.1910-01	.1580-01	.1910-01	.3381-03	.7791-03	.9231-03	.6240	4.761	556.3
427	.60000	.40000	950.00	.2600-02	.2100-02	.2600-02	.1262-03	.1049-03	.1262-03	.8400-01	.7200	552.1
427	.60000	.60000	951.00	.3700-02	.3100-02	.3700-02	.1842-03	.1532-03	.1842-03	.1240	1.098	550.0
427	.60000	.80000	952.00	.3300-02	.2700-02	.3300-02	.1619-03	.1349-03	.1619-03	.1100	.8740	542.7
427	.60000	.95000	953.00	.1600-02	.1400-02	.1600-02	.8072-04	.6733-04	.8072-04	.5500-01	.6470	538.9
427	.70000	.20000	954.00	.3310-01	.2750-01	.3310-01	.1627-02	.1351-02	.1627-02	1.080	8.856	557.0

DATE 25 AUG 76			AEDC VKF V41B-57A (OH-49B) COLLATION DECK			OH-49B (AEDC V41B-57A) ORBITER UPPER WING			PAGE 800			(RV1044)		
PUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(10) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R		
427	.70000	.40000	955.00	.2390-01	.1980-01	.2390-01	.1173-02	.9745-03	.1173-02	.7810	6.412	554.9		
427	.70000	.90000	956.00	.1600-02	.1300-02	.1600-02	.7954-04	.6636-04	.7954-04	.5400-01	.4500	537.9		
427	.75000	.10000+00	957.00	.1079	.8930-01	.1079	.5303-02	.4388-02	.5303-02	3.448	28.07	570.8		
427	.75000	.20000	958.00	.6100-01	.5050-01	.6100-01	.2998-02	.2487-02	.2998-02	1.981	17.51	560.2		
427	.75000	.40000	959.00	.2420-01	.2010-01	.2420-01	.1191-02	.9903-03	.1191-02	.7970	6.807	551.5		
427	.75000	.60000	960.00	.1710-01	.1420-01	.1710-01	.8417-03	.7002-03	.8417-03	.5650	4.827	549.8		
427	.75000	.90000	961.00	.9200-02	.7700-02	.9200-02	.4531-03	.3779-03	.4531-03	.3090	2.558	538.6		
427	.80000	.90000	962.00	.4900-01	.4060-01	.4900-01	.2408-02	.2004-02	.2408-02	1.622	12.65	547.6		
427	.90000	.20000	963.00	.6920-01	.7390-01	.6920-01	.4355-02	.3633-02	.4355-02	2.873	25.32	565.9		
427	.90000	.40000	964.00	.5520-01	.4670-01	.5520-01	.2631-02	.2335-02	.2631-02	1.923	17.05	553.7		
427	.95000	.40000	967.00	.8110-01	.6730-01	.8110-01	.3935-02	.3310-02	.3935-02	2.647	19.53	556.9		
427	.95000	.80000	968.00	.4900-02	.4100-02	.4900-02	.2417-03	.2018-03	.2417-03	.1650	1.279	535.2		

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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(RV1045)

DATE 25 AUG 76 AEDC VKF V41B-57A (OH-49B) COLLATION DECK

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

UPPER WING

PARAMETRIC DATA

ALPHA = 40.30 BETA = .0000 ELEVTR = -30.00 SPD8RK = 40.00  
BOFLAP = 15.30 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	ALPHA DEG.	YAH DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT <sup>3</sup>
447	7.900	40.33	.0000	180.0	109.1	.1200-01	1267.	93.90	.5300	3752.	.1083-04
448	7.900	40.02	.0000	180.0	110.5	.1200-01	1270.	94.20	.5360	3756.	.1094-04
449	7.900	40.03	.0000	180.0	110.5	.1200-01	1276.	94.70	.5360	3766.	.1088-04

RUN NUMBER	MU	LB-SEC /F12	HREF BTU/ R F12SEC	ST FR R =
447	.7564-07		.1779-01	0.075
448	.7581-07		.1791-01	.5438-01
449	.7621-07		.1793-01	.5516-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAN)	H(9TO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(1AH) BTU/ R F12SEC	ODOT BTU/ F12SEC	DTWOT DEG. R /SEC	TW DEG. R
448	.25000	.85000-01	938.00	.1300-02	.5100-02	.6200-02	.1109-03	.9181-04	.1109-03	.6800-01	.5050	533.0
448	.25000	.12500	939.00	.1300-02	.1000-02	.1300-02	.2270-04	.1879-04	.2270-04	.1400-01	.6200-01	532.8
448	.40000	.50000-01	941.00	.1300-01	.2500-02	.1000-01	.1840-03	.1522-04	.1840-03	.1120	.9990	536.0
448	.40000	.20000	942.00	.5300-02	.4400-02	.5300-02	.9440-04	.7835-04	.9440-04	.5700-01	.4260	536.5
448	.40000	.40000	943.00	.6000-03	.5000-03	.6000-03	.1163-04	.9617-05	.1163-04	.7000-02	.5800-01	536.6
448	.40000	.60000	944.00	.5000-03	.7000-03	.8000-03	.1416-04	.1171-04	.1416-04	.9000-02	.8800-01	534.9
448	.40000	.95000	945.00	.4000-03	.3000-03	.4000-03	.7306-05	.6054-05	.7306-05	.4000-02	.4000-01	539.6
448	.60000	.25000-01	945.00	.1000-01	.6900-01	.1092	.1956-02	.1608-02	.1956-02	.1148	.23.11	556.6
448	.60000	.50000-01	947.00	.9500-01	.7800-01	.9500-01	.1714-02	.1413-02	.1714-02	1.021	12.61	547.1
448	.60000	.10000+00	949.00	.4100-01	.3400-01	.4100-01	.7456-03	.6159-03	.7456-03	.4500	4.015	539.6
448	.60000	.20000	949.00	.1800-01	.1500-01	.1800-01	.3300-03	.2727-03	.3300-03	.1990	1.535	538.7
448	.60000	.40000	950.00	.2600-02	.2300-02	.2600-02	.5055-04	.4180-04	.5055-04	.3100-01	.2640	536.4
448	.60000	.60000	951.00	.6000-03	.5000-03	.6000-03	.1020-04	.8435-05	.1020-04	.6000-02	.5600-01	534.2
448	.60000	.85000	952.00	.1600-02	.1300-02	.1600-02	.2881-04	.2387-04	.2881-04	.1800-01	.1420	529.5
448	.60000	.95000	953.00	.1500-02	.1200-02	.1500-02	.2617-04	.2169-04	.2617-04	.1600-01	.1900	527.8
448	.70000	.40000	954.00	.1100-01	.9700-02	.1100-01	.2106-03	.1741-03	.2106-03	.1270	1.055	537.4
448	.70000	.40000	955.00	.6000-02	.7100-02	.8600-02	.1540-03	.1273-03	.1540-03	.9300-01	.7730	536.3

(RV1045)

OH-49B (AFDC V41B-57A) ORBITER UPPER WING

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9T0) BTU/ R F12SEC	H(T0) BTU/ R F12SEC	H(TAW) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWOT DEG. R /SEC	TW DEG. R
448	.70000	.90000	956.00	.1300-02	.1100-02	.1300-02	.2273-04	.1884-04	.2273-04	.1400-01	.1160	527.5
448	.75000	.10000+00	957.00	.4010-01	.3310-01	.4010-01	.7178-03	.5834-03	.7178-03	.4340	3.597	537.3
448	.75000	.20000	958.00	.2120-01	.1750-01	.2120-01	.3798-03	.3140-03	.3798-03	.2300	2.058	536.7
448	.75000	.40000	959.00	.7900-02	.6500-02	.7900-02	.1418-03	.1173-03	.1418-03	.8600-01	.7410	535.4
448	.75000	.60000	960.00	.3000-02	.2500-02	.3000-02	.5355-04	.4432-04	.5355-04	.3300-01	.2810	533.1
448	.75000	.90000	962.00	.1000-03	.1000-03	.1000-03	.2594-05	.2150-05	.2594-05	.2000-02	.1300-11	527.5
448	.80000	.90000	963.00	.2200-02	.1800-02	.2200-02	.3912-04	.3243-04	.3912-04	.2400-01	.1900	526.8
448	.90000	.20000	964.00	.3500-01	.2830-01	.3500-01	.6266-03	.5183-03	.6266-03	.3810	3.408	535.0
448	.90000	.40000	965.00	.1800-01	.1490-01	.1800-01	.3226-03	.2871-03	.3226-03	.1970	1.766	532.1
448	.95000	.40000	967.00	.2000-01	.2000-01	.2000-01	.4753-03	.3944-03	.4753-03	.2910	2.175	531.3
448	.95000	.80000	968.00	.2000-02	.1700-02	.2000-02	.3660-04	.3035-04	.3660-04	.2300-01	.1750	526.6

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1UN5)

## UPPER WING

## PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = -30.00 SPOBRK = 40.00  
BDFLAP = 15.00 MACH = 8.000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10 6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
441	7.940	1.015	40.07	.0000	180.0	208.9	.2200-01	1266.	93.10	.9920	3753.	.2026-04
442	7.940	1.017	40.07	.0000	180.0	209.1	.2200-01	1266.	93.00	.9930	3752.	.2029-04
443	7.940	1.016	40.09	.0000	180.0	209.4	.2300-01	1268.	93.20	.9940	3755.	.2029-04

RUN NUMBER	MJ LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
441	.7492-07	.2435-01	0.0175
442	.7487-07	.2436-01	.4035-01
443	.7501-07	.2438-01	.4037-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
442	.25200	.85000-01	938.00	.4500-02	.3700-02	.4500-02	.1091-03	.9028-04	.1091-03	.6600-01	.4950	532.0
442	.25300	.13500	939.00	.1300-02	.1100-02	.1300-02	.3176-04	.2628-04	.3176-04	.1900-01	.6600-01	532.6
442	.25000	.22500	940.00	.2100-02	.1700-02	.2100-02	.5117-04	.4232-04	.5117-04	.3100-01	.8700-01	533.4
442	.42000	.52000-01	941.00	.5800-02	.8100-02	.9800-02	.2383-03	.1959-03	.2383-03	.1430	1.280	538.3
442	.42000	.20000	942.00	.5500-02	.4900-02	.5500-02	.1445-03	.1133-03	.1445-03	.8700-01	.6450	538.3
442	.42000	.40000	943.00	.7300-03	.6000-03	.7000-03	.1648-04	.1362-04	.1648-04	.1000-01	.8200-01	537.4
442	.42000	.60000	944.00	.9000-03	.7000-03	.9000-03	.2105-04	.1740-04	.2105-04	.1300-01	1.290	535.5
442	.42000	.95000	945.00	.4000-03	.3000-03	.4000-03	.8623-05	.7140-05	.8623-05	.5000-02	.4700-01	529.4
442	.60000	.25000-01	946.00	.1127	.9220-01	.1127	.2745-02	.2246-02	.2745-02	1.567	31.34	568.3
442	.60000	.50000-01	947.00	.1055	.6680-01	.1056	.2572-02	.2115-02	.2572-02	1.507	18.56	553.1
442	.60000	.10000-00	948.00	.4510-01	.3720-01	.4510-01	.1038-02	.9055-03	.1038-02	.6540	5.834	543.0
442	.60000	.20000	949.00	.2300-01	.1970-01	.2380-01	.5807-03	.4793-03	.5807-03	.3470	2.674	540.7
442	.60000	.40000	950.00	.2800-02	.2300-02	.2800-02	.6778-04	.5621-04	.6778-04	.4100-01	.3510	537.3
442	.60000	.60000	951.00	.1700-02	.1400-02	.1700-02	.4192-04	.3466-04	.4192-04	.2500-01	.2270	535.0
442	.60000	.80000	952.00	.1000-02	.8000-03	.1000-02	.2315-04	.1917-04	.2315-04	.1400-01	.1130	530.1
442	.60000	.95000	953.00	.1600-02	.1300-02	.1600-02	.3939-04	.3262-04	.3939-04	.2400-01	.2840	529.5
442	.75000	.20000	954.00	.1780-01	.1470-01	.1780-01	.4340-03	.3583-03	.4340-03	.2600	2.152	539.5

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AEDC VKF V41B-57A (OH-49B) COLLATION DECK

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OH-49B (AEDC V41B-57A) ORBITER UPPER WING

(RV1U45)

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R F12SEC	H(10) BTU/ R F12SEC	H(TAW) BTU/ R F12SEC	QDOT BTU/ F12SEC	DTWDT DEG. R /SEC	TW DEG. R
442	.70000	.40000	955.00	.1100-01	.9100-02	.1100-01	.2686-03	.2219-03	.2686-03	.1620	1.338	537.3
442	.70000	.90000	956.00	.8000-03	.6000-03	.9000-03	.1874-04	.1552-04	.1874-04	.1100-01	.9500-01	529.0
442	.75000	.10000+00	957.00	.6090-01	.5020-01	.6090-01	.1482-02	.1223-02	.1482-02	.8830	7.292	543.1
442	.75000	.20000	958.00	.3100-01	.2560-01	.3100-01	.7555-03	.6237-03	.7555-03	.4530	4.041	543.1
442	.75000	.40000	959.00	.1330-01	.1100-01	.1330-01	.3241-03	.2678-03	.3241-03	.1950	1.676	537.4
442	.75000	.60000	960.00	.6100-02	.5000-02	.6100-02	.1486-03	.1229-03	.1486-03	.9000-01	.7730	534.9
442	.75000	.90000	962.00	.7000-03	.6000-03	.7000-03	.1776-04	.1471-04	.1776-04	.1100-01	.9000-01	529.4
442	.80000	.90000	963.00	.8000-03	.6000-03	.8000-03	.1878-04	.1555-04	.1878-04	.1100-01	.9000-01	528.6
442	.90000	.20000	964.00	.2900-01	.2400-01	.2900-01	.7068-03	.5837-03	.7068-03	.4240	3.792	538.6
442	.90000	.40000	965.00	.2410-01	.2000-01	.2410-01	.5680-03	.4651-03	.5680-03	.3550	3.177	535.4
442	.95000	.40000	967.00	.4650-01	.4000-01	.4650-01	.1180-02	.9751-03	.1180-02	.7100	5.292	537.2
442	.95000	.80000	968.00	.2800-02	.2300-02	.2800-02	.6900-04	.5715-04	.6900-04	.4200-01	.3260	528.7

AEDC VKF V41B-57A (OH-49B) COLLATION DECK

DATE 25 AUG 76

OH-49B (AEDC V41B-57A) ORBITER UPPER WING

UPPER WING

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = -30.00 SPOBRK = 40.00  
BDFLAP = 15.00 MACH = 8.000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	MACH	RN/L X10.6 /FT	ALPHA DEG.	YAW DEG.	PHI MODEL DEG.	PO PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
435	7.980	1.997	40.07	.0000	180.0	431.4	.4500-01	1296.	94.30	2.002	3798.	.3994-04
436	7.980	1.987	40.08	.0000	180.0	429.9	.4500-01	1297.	94.50	1.995	3800.	.3975-04
437	7.980	1.930	40.07	.0000	180.0	429.8	.4500-01	1296.	94.30	1.995	3798.	.3980-04

RUN NUMBER	MU LB-SEC /FT2	HREF BTU/ R FT2SEC	ST FR R =
435	.7595-07	.3473-01	0.0175
436	.7604-07	.3468-01	.2834-01
437	.7594-07	.3466-01	.2839-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	2Y/B	X/C	T/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TAW)	H(9TO) BTU/ R FT2SEC	H(10) BTU/ R FT2SEC	H(TAW) BTU/ R FT2SEC	QDOT BTU/ R FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
436	.25000	.85000-01	938.00	.1900-02	.1500-02	.1900-02	.6497-04	.5388-04	.6497-04	.4100-01	.3050	537.2
436	.25000	.13500	939.00	.8000-03	.7000-03	.8000-03	.2769-04	.2296-04	.2769-04	.1700-01	.7800-01	537.9
436	.40000	.50000-01	941.00	.1730-01	.1470-01	.1730-01	.6011-03	.4959-03	.6011-03	.3720	3.306	548.9
436	.40000	.20000	942.00	.1280-01	.1050-01	.1280-01	.4436-03	.3657-03	.4436-03	.2750	2.036	548.1
436	.40000	.40000	943.00	.7000-03	.5000-03	.7000-03	.2271-04	.1879-04	.2271-04	.1400-01	.1160	546.9
436	.40000	.60000	944.00	.1000-03	.0000	.1000-03	.1989-05	.1646-05	.1989-05	.1000-02	.1300-01	544.9
436	.40000	.95000	945.00	.6000-03	.5000-03	.6000-03	.2023-04	.1656-04	.2023-04	.1300-01	.1140	536.0
436	.60000	.25000-01	946.00	.1191	.9710-01	.1191	.4131-02	.3359-02	.4131-02	2.369	46.77	594.4
436	.60000	.50000-01	947.00	.1237	.1015	.1237	.4289-02	.3520-02	.4289-02	2.546	31.04	574.1
436	.60000	.10000-00	948.00	.4760-01	.3550-01	.4760-01	.1658-02	.1368-02	.1658-02	1.016	9.003	555.0
436	.60000	.20000	949.00	.3510-01	.2890-01	.3510-01	.1216-02	.1004-02	.1216-02	.7470	5.710	553.3
436	.60000	.40000	950.00	.3500-02	.2900-02	.3500-02	.1198-03	.9904-04	.1198-03	.7400-01	.6350	547.7
436	.60000	.60000	951.00	.4500-02	.3800-02	.4500-02	.1576-03	.1304-03	.1576-03	.9800-01	.8730	545.7
436	.60000	.80000	952.00	.1800-02	.1500-02	.1800-02	.6352-04	.5267-04	.6352-04	.4000-01	.3190	537.9
436	.60000	.90000	953.00	.2000-02	.1600-02	.2000-02	.6350-04	.5691-04	.6350-04	.4300-01	.5100	536.5
436	.70000	.20000	954.00	.2000-01	.2210-01	.2000-01	.9237-03	.7670-03	.9237-03	.5720	4.703	551.9
436	.70000	.40000	955.00	.1600-01	.1320-01	.1600-01	.5534-03	.4592-03	.5534-03	.3400	2.832	548.4





AEDC V41B-57A (OH-49B) COLLATION DECK

C-4-49B (AEDC V41B-57A) ORBITER UPPER WING

UPPER WING

PARAMETRIC DATA

ALPHA = 40.00 BETA = .0000 ELEVTR = -30.00 SPOBRK = 40.00  
BOFLAF = 15.00 MACH = 8.000

\*\*\*TEST CONCLUSIONS\*\*\*

ROW NUMBER	MACH	RN/L X10.6	ALPHA DEG.	YAW DEG.	P-1 MODEL DEG.	PC PSIA	P PSIA	TO DEG. R	T DEG. R	Q PSIA	V FT/SEC	RHO SLUGS /FT3
429	8.000	3.702	40.10	.0000	180.0	859.6	.8800-01	1354.	98.10	3.844	3882.	.7530-04
430	8.000	3.714	40.15	.0000	180.0	859.2	.8800-01	1350.	97.90	3.943	3873.	.7545-04
431	8.000	3.716	40.07	.0000	180.0	856.6	.8800-01	1349.	97.80	3.941	3876.	.7549-04

ROW NUMBER	MU	REF	ST R
429	LE-SEC	RTU: R	R =
430	7897-07	1125EC	0.0175
431	7879-07	4512-01	.2108-01
432	7871-07	4939-01	.2107-01
433	7871-07	4937-01	.2106-01

\*\*\*TEST DATA\*\*\*

ROW NUMBER	2Y/0	X/C	1/C NO	H/HREF R=0.9	H/HREF R=1.0	H/HREF (TA)	H19T0 F12SEC	H10T0 F12SEC	H1T0 F12SEC	QDCT RTU/ FT2SEC	DTWOT DEG. R	TW DEG. R
430	25000	.85000-01	938.00	.2500-03	.2100-02	.2500-02	.1231-03	.1075-03	.1231-03	.8300-01	.6130	544.3
431	25000	.13500	933.00	.1000-02	.8000-03	.1500-02	.4713-04	.3322-04	.4713-04	.3200-01	.1410	545.3
432	25000	.22000	940.00	.2200-02	.1820-02	.2200-02	.1091-03	.9880-04	.1091-03	.7300-01	.2030	546.3
433	40000	.50000-01	941.00	.3950-01	.3270-01	.2950-01	.1933-02	.1604-02	.1933-02	1.256	11.07	561.7
434	40000	.20000	942.00	.3510-01	.2910-01	.3510-01	.1722-02	.1427-02	.1722-02	1.123	8.255	564.7
435	40000	.40000	943.00	.6907-03	.7000-03	.8000-03	.3924-04	.3200-04	.3924-04	.2600-01	.2110	563.5
436	40000	.60000	944.00	.5000-03	.4000-03	.5000-03	.2435-04	.2020-04	.2435-04	.1600-01	.1610	567.9
437	40000	.95000	945.00	.9000-03	.8000-03	.9000-03	.4655-04	.3876-04	.4655-04	.3100-01	.2790	543.9
438	60000	.25000-01	946.00	.1269	.1029	.1269	.6229-02	.5533-02	.6229-02	3.615	69.39	635.1
439	60000	.50000-01	947.00	.1213	.9350-01	.1217	.5955-04	.4847-02	.5955-02	3.681	44.35	597.4
440	60000	.10000-00	948.00	.6020-01	.4220-01	.6020-01	.2355-02	.2444-02	.2355-02	1.909	16.80	569.5
441	60000	.20000	949.00	.4710-01	.3590-01	.4710-01	.2310-02	.1911-02	.2310-02	1.494	11.33	569.0
442	60000	.40000	950.00	.5300-02	.4400-02	.5300-02	.2625-03	.2177-03	.2625-03	.1720	1.46	559.4
443	60000	.60000	951.00	.6300-02	.7400-02	.6300-02	.3559-03	.3516-03	.3559-03	.2670	2.538	557.5
444	60000	.80000	952.00	.4400-02	.2500-02	.4400-02	.2143-03	.1783-03	.2143-03	.1430	1.139	546.6
445	60000	.95000	953.00	.3700-02	.3020-02	.3700-02	.1493-03	.1493-03	.1493-03	.1210	1.415	543.0
446	70000	.20000	954.00	.5940-01	.3160-01	.5940-01	.1886-02	.1562-02	.1886-02	1.226	10.00	565.7

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AEDC VKF V4B-57A (OH-49B) COLLATION DECK  
OH-49B (AEDC V4B-57A) ORBITER

DA-E 25 AUG 76

PUN NUMBER	2Y/B	X/C	1/C NO	H/HREF R=0.9	H/HREF R=1.0	.H/HREF (TAK)	H(9T0) BTU/ K F12SEC	H(10I) BTU/ R F12SEC	H(14M) BTU/ R F12SEC	QDOT BTU/ F12SEC	NTWDT DEG. R /SEC	TW DEG. R
430	70000	40000	955.00	3460-01	2880-01	3480-01	1709-02	1415-02	1709-02	1.114	9.100	563.5
430	70000	90000	956.00	1400-02	1200-02	1400-02	6868-04	5723-04	6868-04	4600-01	3830	540.5
430	75000	10000	537.00	1215	1003	1215	5960-02	4922-02	5966-02	3.795	30.76	579.3
430	75000	20000	958.00	6910-01	5720-01	6910-01	3391-02	2808-02	3391-02	2.198	19.36	567.3
430	75000	40000	959.00	2430-01	2030-01	2430-01	1204-02	9993-03	1204-02	7520	6.743	557.6
430	75000	60000	959.00	2780-01	2310-01	2780-01	1369-02	1132-02	1365-02	8960	7.616	559.3
430	75000	90000	952.00	2060-02	2100-02	2500-02	1219-03	1016-03	1219-03	8200-01	6810	539.6
430	80000	95000	953.00	4650-02	3930-02	4650-02	2041-03	1702-03	2041-03	1330	1.083	538.7
430	90000	20000	954.00	1133	930-01	1133	5934-02	4654-02	5934-02	3.744	32.78	579.2
430	90000	40000	952.00	6330-01	7200-01	8930-01	4392-02	3528-02	4382-02	2.848	25.11	565.5
430	95000	40000	957.00	1130	9340-01	1130	4548-02	4548-02	5546-02	3.568	26.12	572.1
430	95000	80000	958.00	8400-02	7000-02	9400-02	4147-03	3458-03	4147-03	2810	2.168	537.3

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